تفوقك في أي عمل عليه العلامة دي ذاكرولي



Unit 1

FRACTIONS AND DECIMAL NUMBERS

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

$\frac{1}{2}$ $\frac{1}{2}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

$1 = \frac{1}{2} + \frac{1}{2} = \frac{2}{2}$

$1 = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$

1A Lesson

FRACTIONS

Revision on what was studied before about fractions



Aims

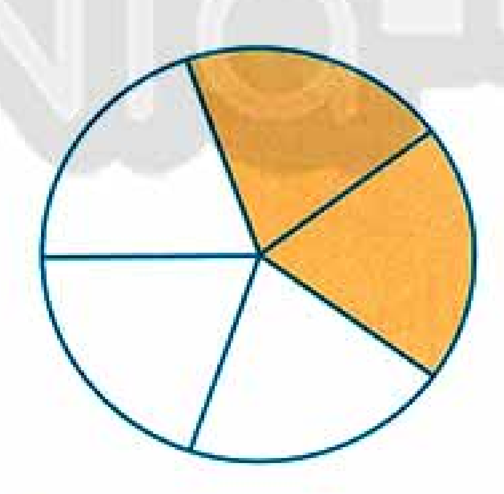
At the end of this lesson, the pupil should be able to:

- remember the meaning of: equality of the fractions, simplifying fractions, comparing two fractions and adding and subtracting fractions with the same denominators.



WARM UP

Read and notice:



$\frac{2}{5}$

2 ← Numerator (above the line)

5 ← Denominator (below the line)

The number below the line tells how many equal parts are there in the whole one It is called the denominator.



The number above the line tells how many parts are colored. It is called the numerator.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

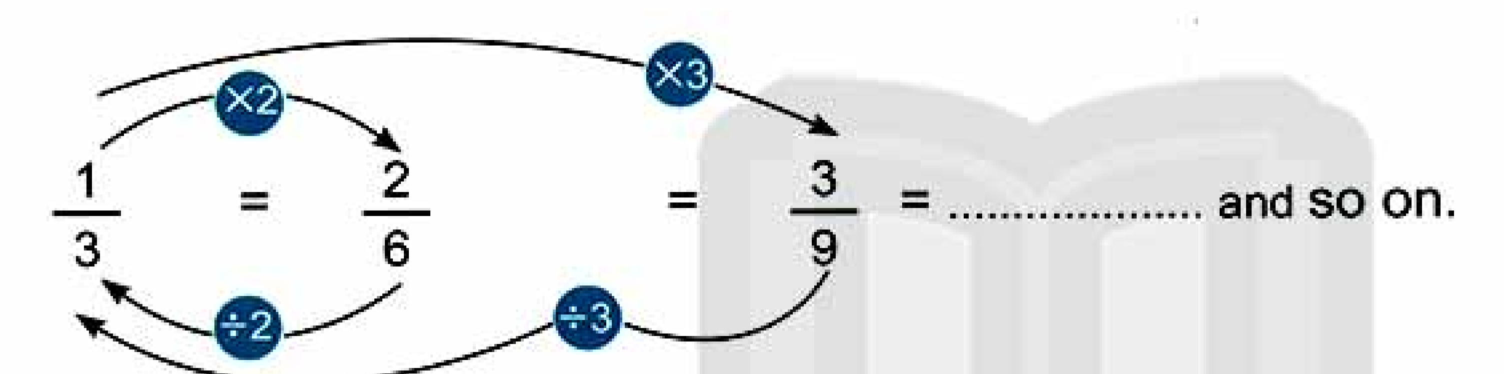


Equal fractions:



They are the fractions that have the same value.





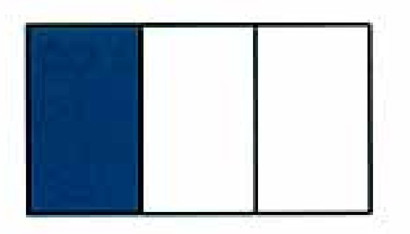
$\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$ = ... and so on.

(×2, ×3, ÷2, ÷3)

Remark:

You can find equivalent fractions for any fraction by multiplying or dividing each of the numerator and the denominator by the same number (other than zero).





Solved Example 1

Complete:

(a) $\frac{1}{2} = \frac{2}{....} = \frac{....}{6}$

(b) $\frac{6}{8} = \frac{....}{24} = \frac{24}{....} = \frac{....}{4}$

Solution

(a) $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$ (×2, ×3)

(b) $\frac{6}{8} = \frac{18}{24} = \frac{24}{32} = \frac{3}{4}$ (×3, ×4, ÷2)



Check Point

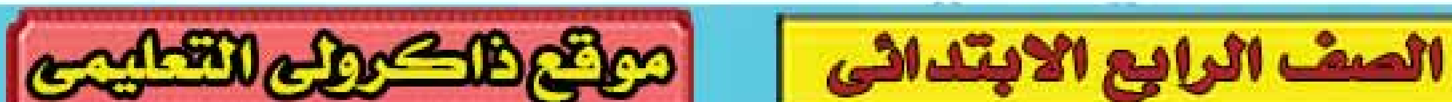
Complete:

(a) $\frac{2}{3} = \frac{4}{....} = \frac{....}{15} = \frac{6}{....} = \frac{....}{12}$

(b) $\frac{3}{5} = \frac{6}{....} = \frac{9}{....} = \frac{15}{....} = \frac{12}{....}$

equivalent لها نفس القيمة أو متساوية أو متكافئة




هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



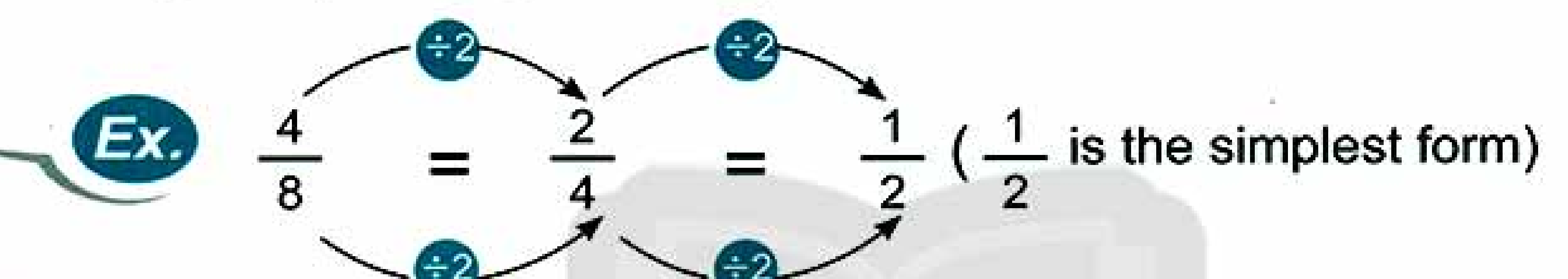
Simplifying fractions:



To simplify a fraction to its simplest form, we use any of two ways:

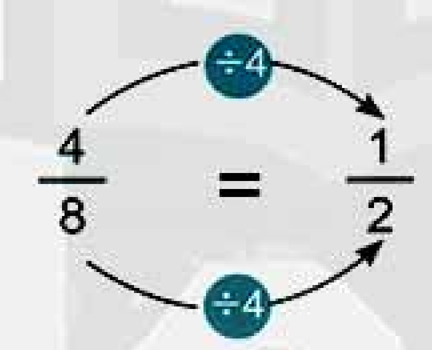
1. Divide each of the numerator and denominator by their common factors and keep on dividing until you will get the simplest form.

Ex.



$\frac{4}{8} = \frac{2}{4} = \frac{1}{2}$ (÷2, ÷2) ($\frac{1}{2}$ is the simplest form)

or 2. Divide each of the numerator and the denominator by their highest common factor (H.C.F.).



$\frac{4}{8} = \frac{1}{2}$ (÷4)

Remember that

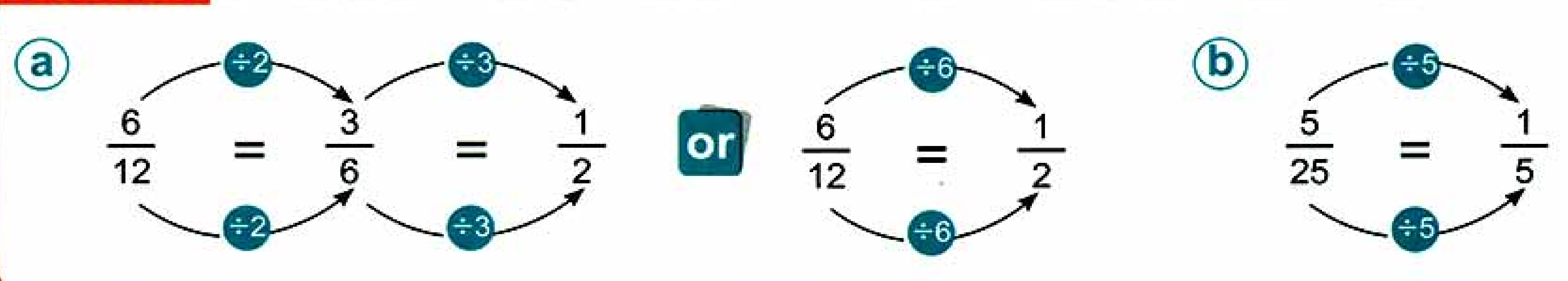
To find (H.C.F.) for 4 and 8:
Factors of 4 are: 1, 2, 4
Factors of 8 are: 1, 2, 4, 8
Common factors are: 1, 2, 4
H.C.F. for 4 and 8 = 4

Solved Example 2

Simplify each of the following to its simplest form:

(a) $\frac{6}{12}$ = ... (b) $\frac{5}{25}$ = ...

Solution



(a) $\frac{6}{12} = \frac{3}{6} = \frac{1}{2}$ (÷2, ÷3) **or** $\frac{6}{12} = \frac{1}{2}$ (÷6)

(b) $\frac{5}{25} = \frac{1}{5}$ (÷5)

Check Point



Simplify:

(a) $\frac{8}{24}$ = ... (b) $\frac{12}{18}$ = ... (c) $\frac{15}{24}$ = ... (d) $\frac{49}{70}$ = ...



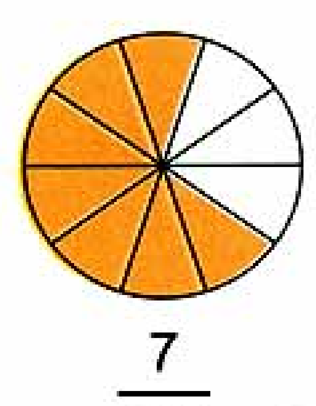
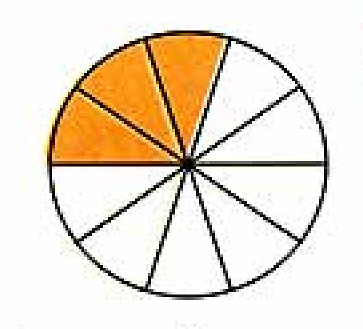
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Comparing two fractions:


watch video

1. If both fractions have the same **denominator**:

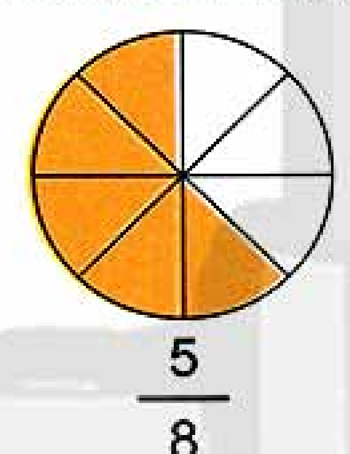
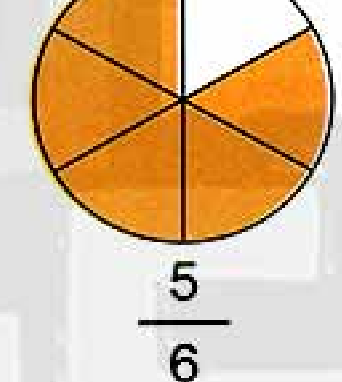



$\frac{7}{10} > \frac{3}{10}$

because 7 > 3



2. If both fractions have the same **numerator**:

$\frac{5}{8} < \frac{5}{6}$

because 8 > 6



Solved Example 3

Complete each of the following by using (< , > or =):

(a) $\frac{5}{8}$ .... $\frac{3}{8}$

(b) $\frac{3}{7}$ .... $\frac{3}{4}$

(c) $\frac{2}{3}$ .... $\frac{6}{9}$

(d) $\frac{4}{5}$ .... $\frac{16}{28}$

Solution

(a) $\frac{5}{8} > \frac{3}{8}$ (because 5 > 3)

(b) $\frac{3}{7} < \frac{3}{4}$ (because 7 > 4)

(c) $\frac{2}{3} = \frac{6}{9}$ (because $\frac{6}{9} = \frac{6 \div 3}{9 \div 3} = \frac{2}{3}$)

(d) $\frac{4}{5} > \frac{16}{28}$ (because $\frac{16}{28} = \frac{16 \div 4}{28 \div 4} = \frac{4}{7}$)

Check Point

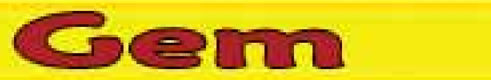
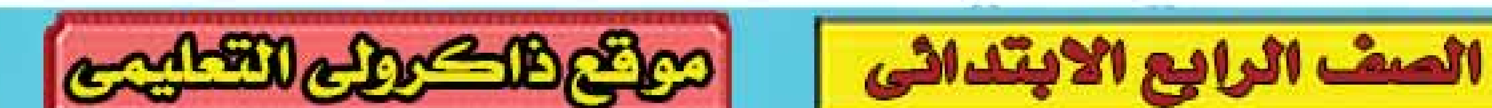


Complete:

(a) $\frac{2}{5}$ .... $\frac{2}{9}$

(b) $\frac{1}{3}$ .... $\frac{4}{6}$

(c) $\frac{8}{21}$ .... $\frac{8}{25}$



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



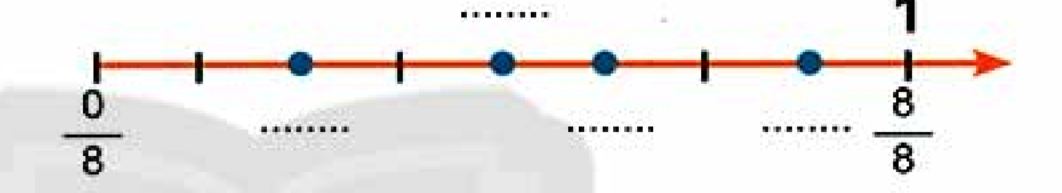
Representing the fractions on the number line:

Solved Example 4



Place the following fractions in their suitable place on the following number lines, then complete:

$\frac{5}{8}$, $\frac{1}{2}$, $\frac{2}{8}$, $\frac{7}{8}$

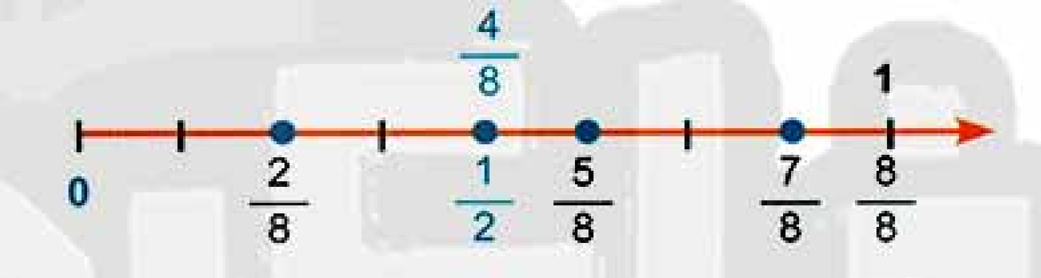


so , ... < .... < .... < .... (ascending order)

or , ... > .... > .... > .... (descending order)

Solution

$\frac{1}{2} = \frac{4}{8}$



so , $\frac{2}{8} < \frac{1}{2} < \frac{5}{8} < \frac{7}{8}$

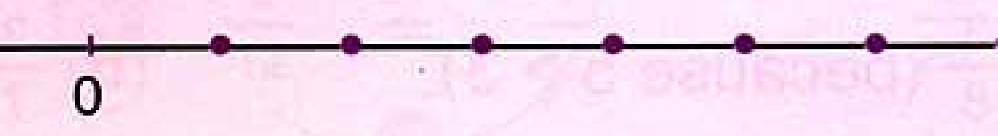
or , $\frac{7}{8} > \frac{5}{8} > \frac{1}{2} > \frac{2}{8}$

Check Point



Place each of the following fractions in its suitable place on the following number line, then complete:

$\frac{5}{7}$, $\frac{2}{7}$, 1 , $\frac{6}{7}$



So, ... < .... < .... < .... (ascending order)

or .... > .... > .... > .... (descending order)

....

....

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

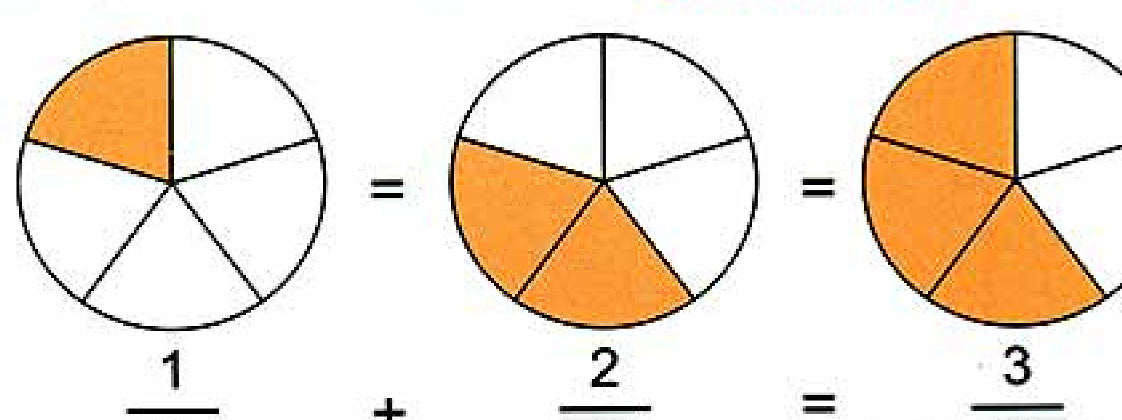


Adding and subtracting two fractions:



If both fractions have the same **denominator**:

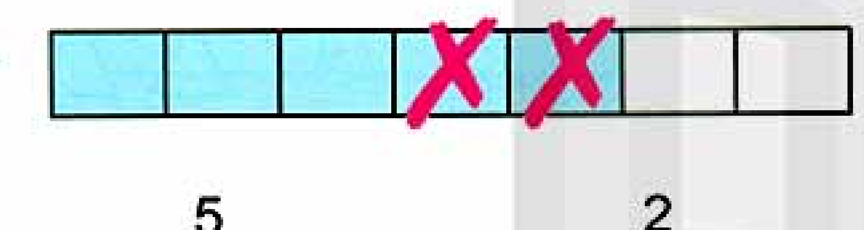
1



$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$



2



$$\frac{5}{7} - \frac{2}{7} = \frac{3}{7}$$



Solved Example 5



ⓐ $\frac{7}{8} + \frac{1}{8}$ ⓑ $\frac{4}{5} - \frac{3}{5}$ ⓒ $1 - \frac{2}{9}$

Solution

ⓐ $\frac{7}{8} + \frac{1}{8} = \frac{8}{8} = 1$

ⓑ $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$

ⓒ $1 - \frac{2}{9} = \frac{9}{9} - \frac{2}{9} = \frac{7}{9}$



Check Point



Find the result:

(a) $\frac{5}{9} + \frac{3}{9} =$ ....

(b) $\frac{7}{11} - \frac{5}{11} =$ ....

(c) $1 - \frac{1}{7} =$ ....







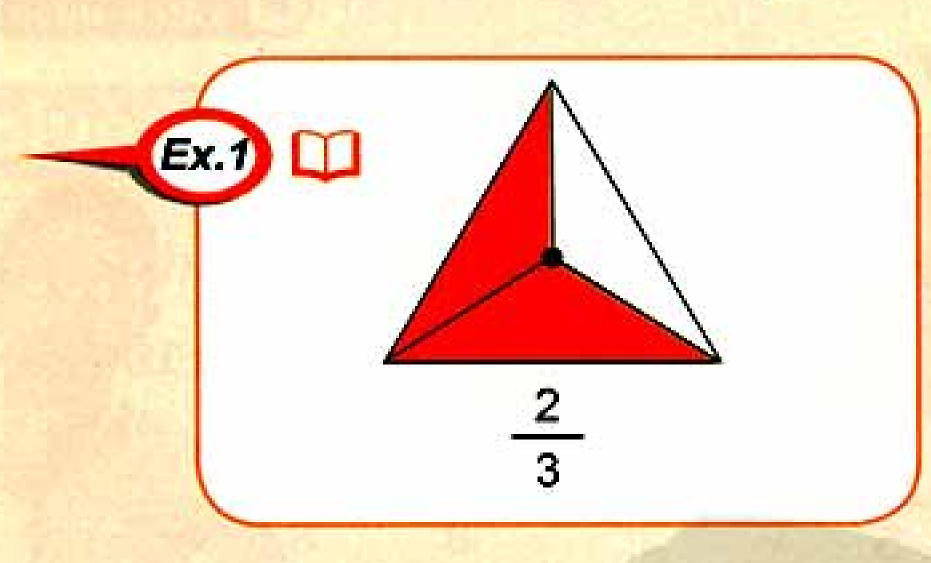
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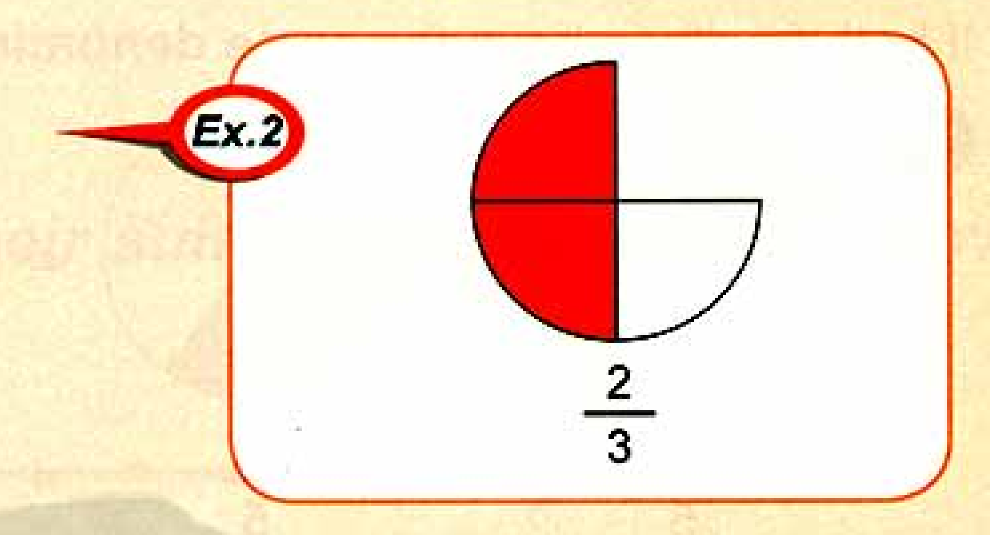


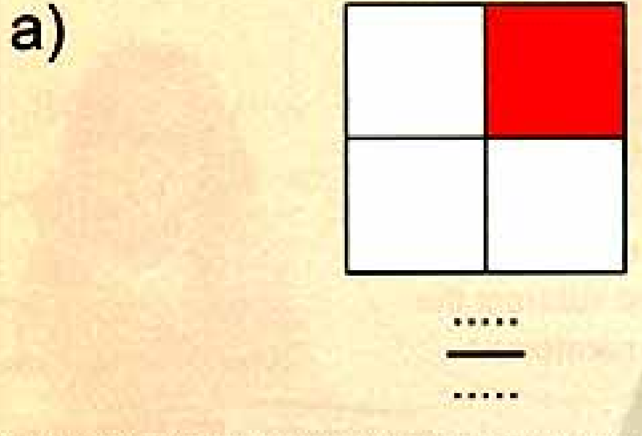
Revision on what was studied before about fractions

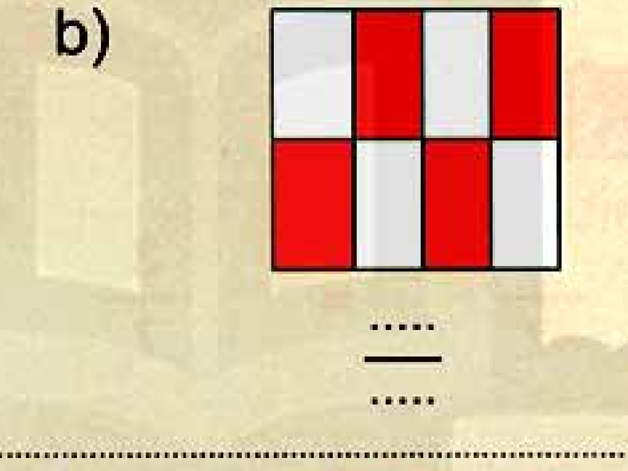


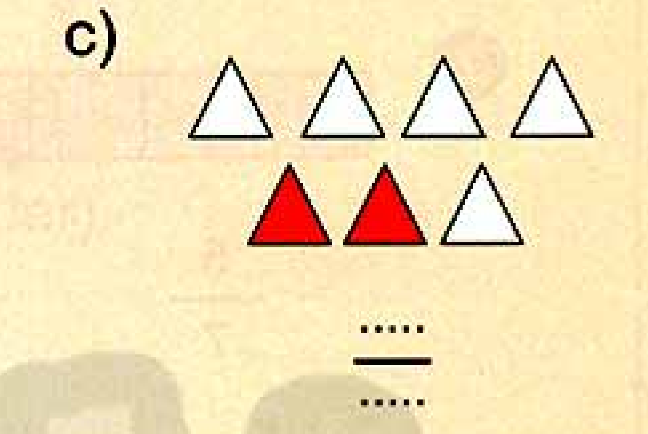
1 *Write the fraction that represents the colored part as the examples:*

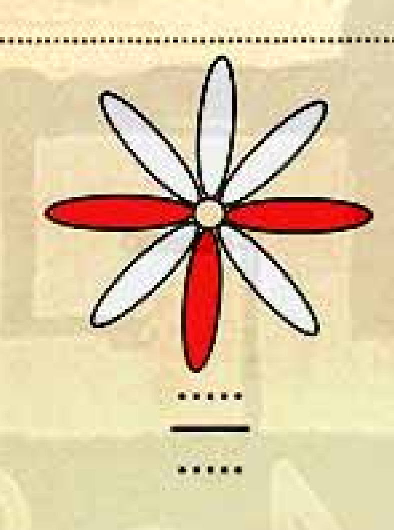


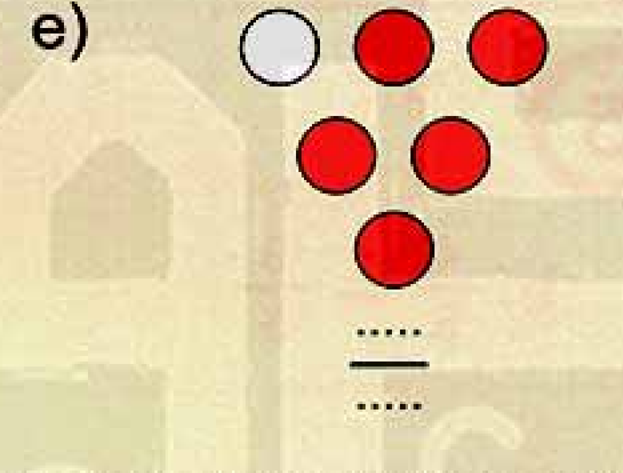


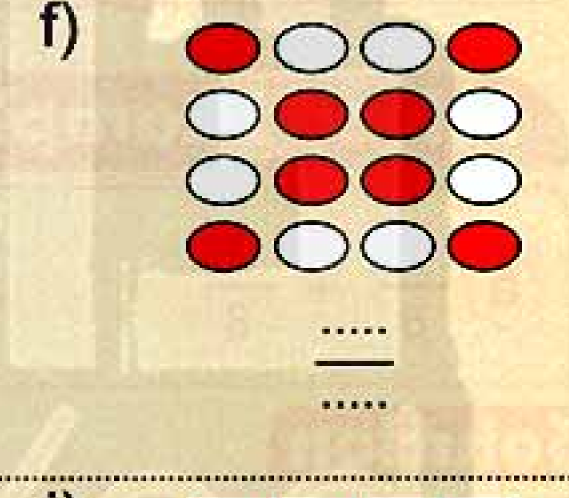
a)


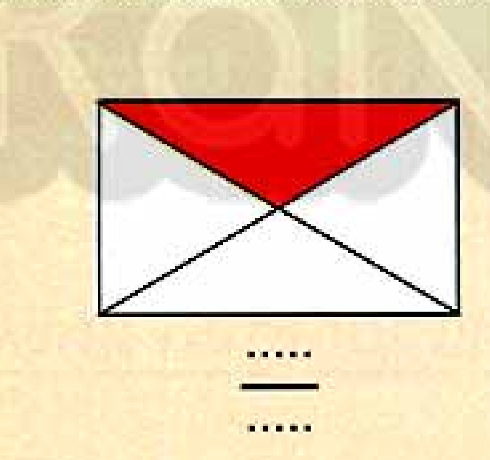
b)


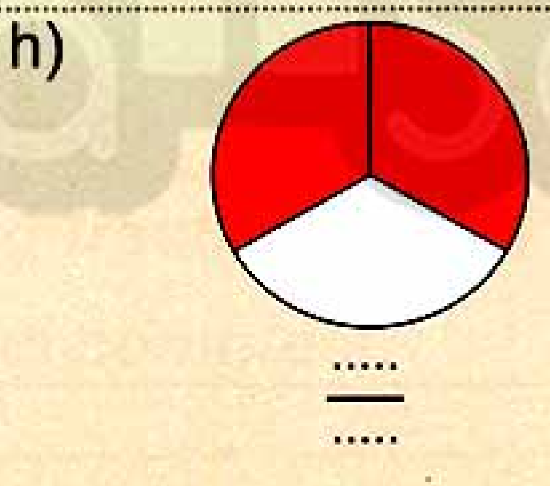
c)


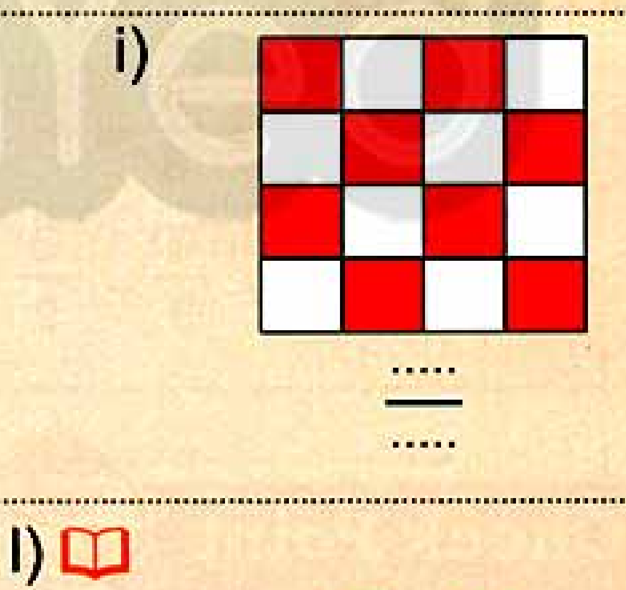
d)


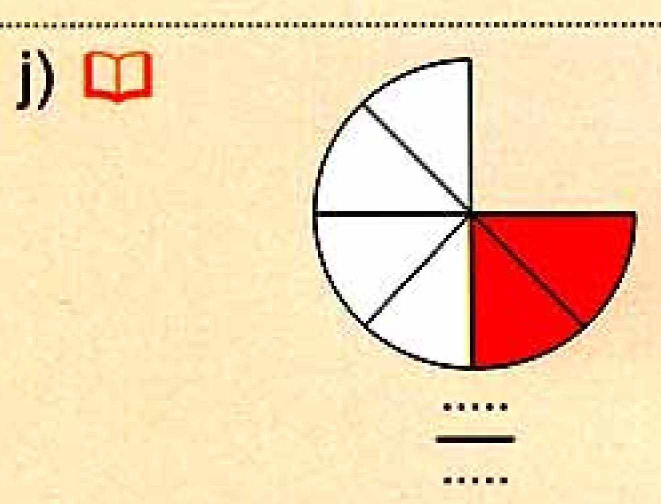
e)


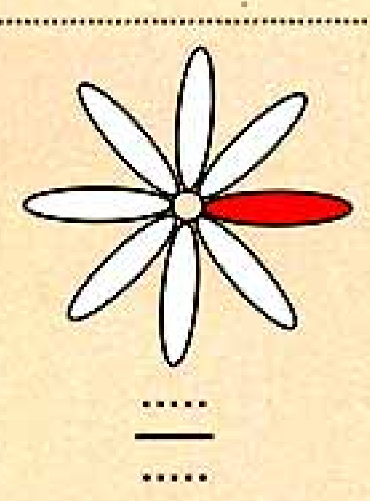
f)


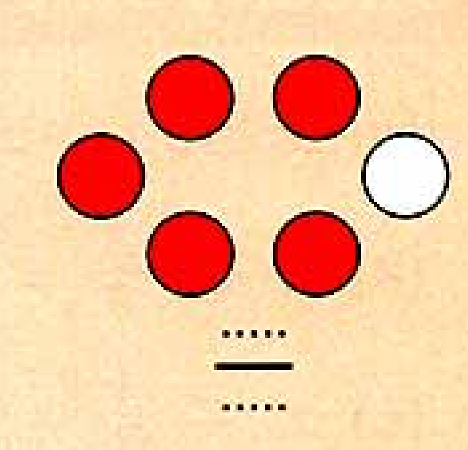
g)


h)


i)


j)


k)


l)


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2 Complete the following table as the example:

	Numerator	Denomintaor	The fraction	Read as
Ex.	1	2	$\frac{1}{2}$	half
a	1	3	....	....
b	....	....	$\frac{3}{4}$	three quarters
c	....	5	....	two fifths
d	3	....	$\frac{3}{7}$	....

3 Write each integer in the form of a fraction:

Ex. $13 = \frac{13}{1}$ (13 → numerator, 1 → denominator)

a) 4 = $\frac{.....}{2}$

b) 3 = $\frac{.....}{3}$

c) 7 = $\frac{14}{.....}$

d) 10 = $\frac{50}{.....}$

e) 20 = $\frac{40}{.....}$

f) 2 = $\frac{12}{.....}$

g) 5 = $\frac{15}{.....}$

h) 6 = $\frac{30}{.....}$

4 Put the following fractions in the simplest form as the example:

Ex. $\frac{4}{12} = \frac{1}{3}$ (÷4) or $\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$ (÷2, ÷2)

a) $\frac{15}{35} = \frac{3}{.....}$, $\frac{4}{20} = \frac{1}{.....}$, $\frac{15}{27} = \frac{.....}{9}$

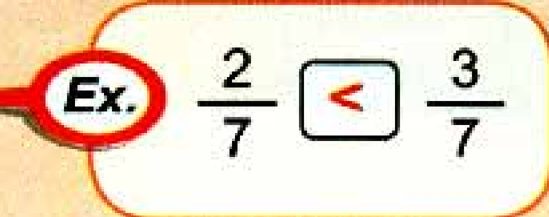
b) $\frac{28}{7} = \frac{.....}{.....}$, $\frac{3}{4} = \frac{.....}{16}$, $\frac{25}{35} = \frac{.....}{.....}$

c) $\frac{10}{40} = \frac{.....}{.....}$, $\frac{36}{22} = \frac{.....}{.....}$, $\frac{56}{18} = \frac{.....}{.....}$

d) $\frac{16}{24} = \frac{.....}{.....}$, $\frac{20}{32} = \frac{.....}{.....}$, $\frac{24}{32} = \frac{.....}{.....}$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5 ***Complete each of the following using (< , > or =) as the example:***



a) $\frac{3}{5}$ ☐ $\frac{4}{5}$

b) $\frac{4}{6}$ ☐ $\frac{3}{6}$

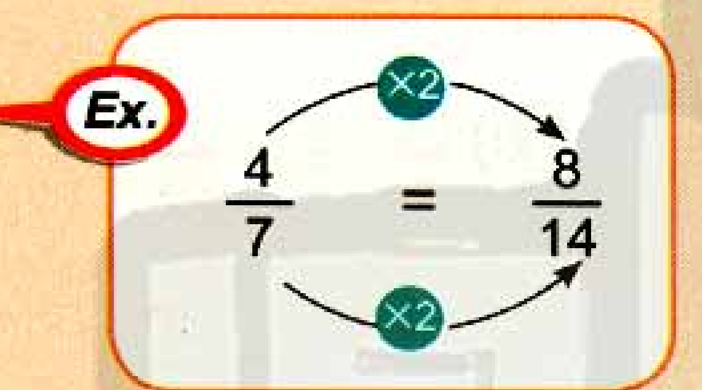
c) $\frac{3}{7}$ ☐ $\frac{3}{6}$

d) $\frac{4}{8}$ ☐ $\frac{4}{6}$

e) $\frac{16}{18}$ ☐ $\frac{8}{9}$

f) $\frac{10}{9}$ ☐ 1

6 ***Write an equivalent fraction for each of the following as the example:***



a) $\frac{8}{11}$ = $\frac{.....}{.....}$

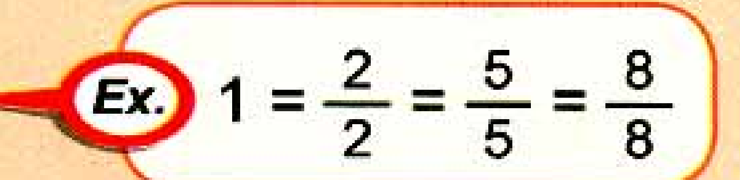
b) $\frac{5}{6}$ = $\frac{.....}{.....}$

c) $\frac{1}{9}$ = $\frac{.....}{.....}$

d) $\frac{2}{3}$ = $\frac{.....}{.....}$

e) $\frac{3}{10}$ = $\frac{.....}{.....}$

7 ***Complete each of the following as the example:***



a) 2 = $\frac{8}{.....}$ = $\frac{.....}{6}$ = $\frac{10}{.....}$

b) $\frac{2}{7}$ = $\frac{.....}{14}$ = $\frac{12}{.....}$ = $\frac{20}{.....}$

c) $\frac{3}{5}$ = $\frac{6}{.....}$ = $\frac{12}{.....}$ = $\frac{.....}{50}$

d) $\frac{1}{2}$ = $\frac{5}{.....}$ = $\frac{3}{.....}$ = $\frac{6}{.....}$

e) 📖 $\frac{3}{4}$ = $\frac{.....}{8}$ = $\frac{9}{.....}$ = $\frac{.....}{20}$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

8 Complete each of the following:

a) $\frac{5}{7} + \frac{1}{7} = \frac{......}{......}$

b) $\frac{6}{11} - \frac{3}{11} = \frac{......}{......}$

c) $\frac{2}{5} + \frac{......}{......} = \frac{3}{5}$

d) $\frac{4}{7} - \frac{......}{......} = \frac{1}{7}$

e) $\frac{3}{4} + \frac{......}{......} = 1$

f) $1 - \frac{......}{......} = \frac{1}{5}$

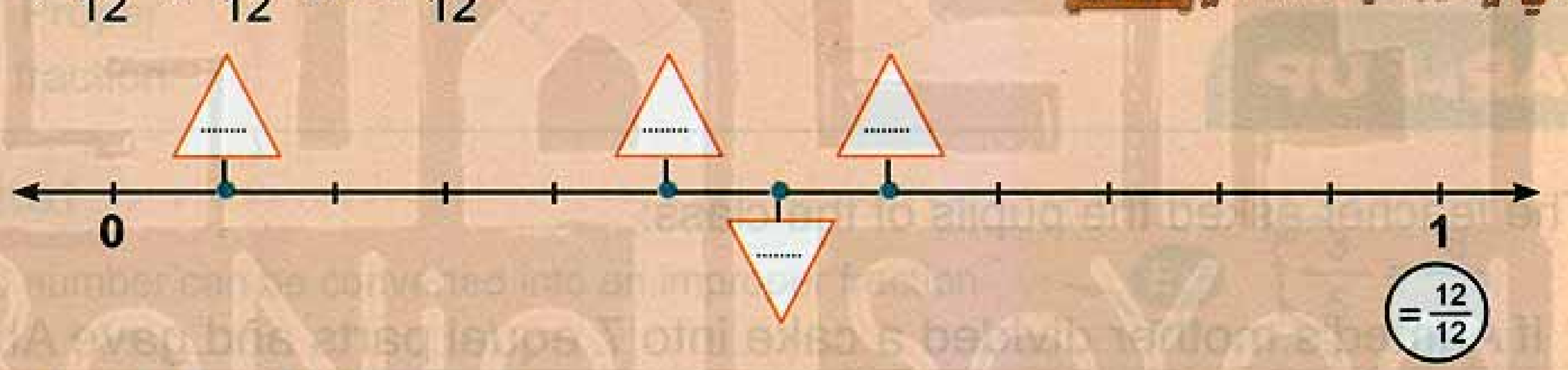
g) $(\frac{3}{8} + \frac{5}{8}) - \frac{1}{8} =$ ....

h) $(\frac{9}{12} + \frac{5}{12}) - \frac{3}{12} =$ ....

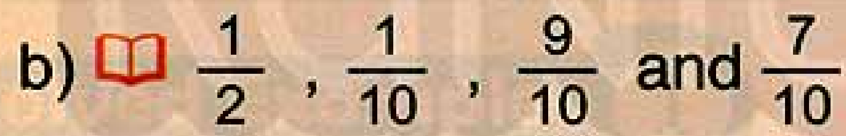
9 Write the fractions in their suitable place on the number line, then arrange them ascendingly and descendingly:

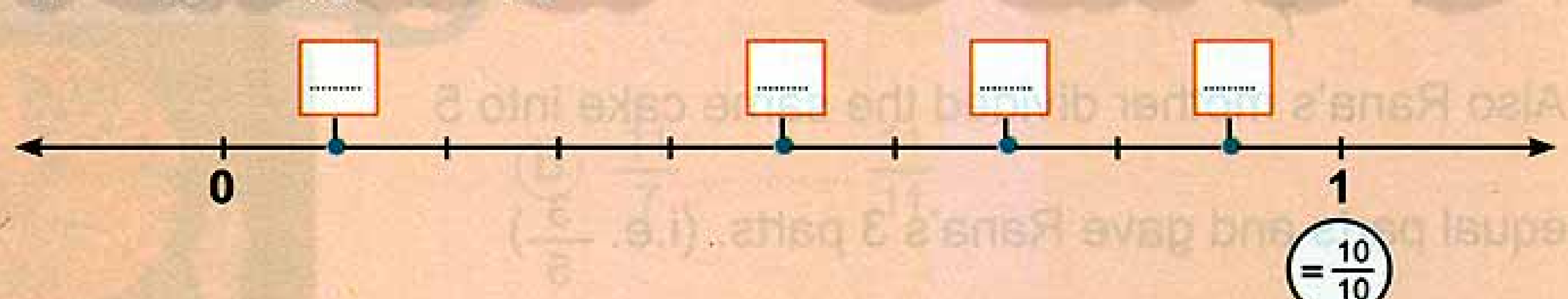
a) $\frac{1}{2}$, $\frac{5}{12}$, $\frac{1}{12}$ and $\frac{7}{12}$





b) $\frac{1}{2}$, $\frac{1}{10}$, $\frac{9}{10}$ and $\frac{7}{10}$





FOR EXCELLENT PUPILS

10 Find the result of the following in its simplest form:

$(\frac{6}{21} + \frac{12}{84}) - \frac{2}{14}$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

1B Lesson

FRACTIONS
More about fractions



Aims

At the end of this lesson, the pupil should be able to:

(1) recognise the different forms of the fractional number.

(2) gain the skill of converting one form to another and comparing a set of different fractions.

WARM UP

The teacher asked the pupils of the class:

- If Ahmed's mother divided a cake into 7 equal parts and gave Ahmed 4 parts (i.e. $\frac{4}{7}$)

  Also Rana's mother divided the same cake into 5 equal parts and gave Rana's 3 parts. (i.e. $\frac{3}{5}$)

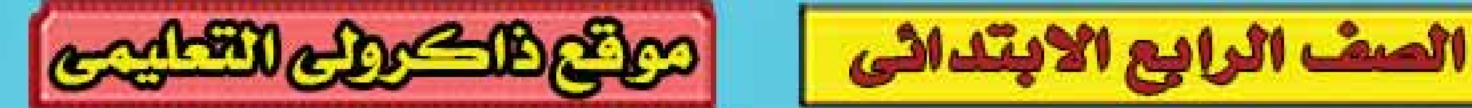


  Who took the greater part, Ahmed or Rana?

  Now we are going to compare between $\frac{4}{7}$ and $\frac{3}{5}$

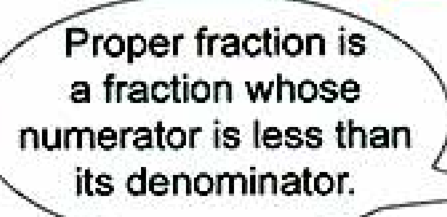








Fractional numbers

a) Proper fraction:

Its value is always less than "1"

Ex. $\frac{2}{5}$ is a proper fraction.

It has 2 equal parts, each part is a fifth ($\frac{1}{5}$)

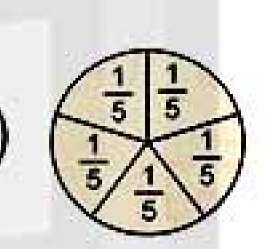
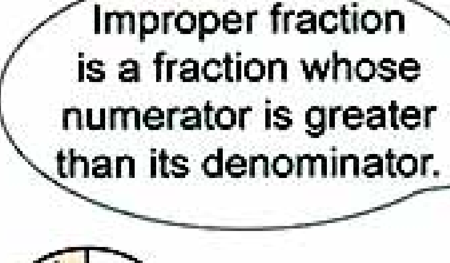


b) Improper fraction:

It value is always greater than "1"

Ex. $\frac{8}{5}$ is an improper fraction.

It has 8 equal parts, each part is a fifth ($\frac{1}{5}$)

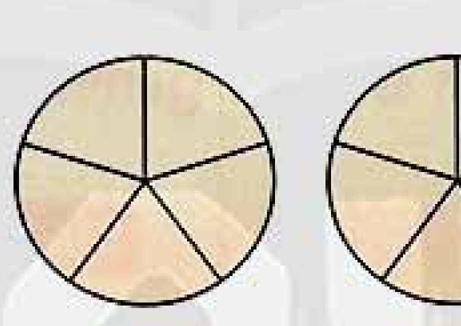





C) Mixed number:

$1\frac{3}{5}$ is a mixed number.

Whole number — Proper fraction





Note that

Any mixed number can be converted into an improper fraction.

Ex. $1\frac{3}{5} = \frac{8}{5}$



Solved Example 1

Put (<, > or =):

(a) $\frac{7}{16}$ .... $\frac{5}{5}$ (b) $\frac{11}{7}$ .... $\frac{11}{11}$

Solution

(a) < (because $\frac{7}{16}$ is a proper fraction < 1) (b) > (because $\frac{11}{7}$ is an improper fraction > 1)

Check Point

Put (<, > or =): (a) $\frac{8}{9}$ .... $\frac{9}{9}$ (b) $\frac{20}{20}$ .... $\frac{7}{3}$






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Note that

1. Any whole number can be written in the form $\frac{\text{numerator}}{\text{denominator}}$

Ex.

$1 = \frac{2}{2} = \frac{3}{3} = \frac{4}{4} = \frac{5}{5} = \text{..............}$ so on.

$2 = \frac{4}{2} = \frac{6}{3} = \frac{8}{4} = \frac{10}{5} = \text{..............}$ so on.

$3 = \frac{6}{2} = \frac{9}{3} = \frac{12}{4} = \frac{15}{5} = \text{..............}$ so on.

2. Any mixed number can be converted into an improper fraction by using two methods:

Ex. To convert the mixed number $2\frac{3}{4}$ into an improper fraction, we have:

First method

$2\frac{3}{4} = 2 + \frac{3}{4}$

$= \frac{8}{4} + \frac{3}{4}$

$= \frac{11}{4}$

Second method

Step 1 $2\frac{3}{4} = \frac{2 \times 4 + \text{.....}}{4}$

Step 2 $2\frac{3}{4} = \frac{2 \times 4 + 3}{4}$

Step 3 $2\frac{3}{4} = \frac{11}{4}$

Solved Example 2

Convert $3\frac{1}{6}$ to an improper fraction:

Solution

$3\frac{1}{6} = 3 + \frac{1}{6} = \frac{18}{6} + \frac{1}{6} = \frac{19}{6}$

or $3\frac{1}{6} = \frac{3 \times 6 + 1}{6} = \frac{19}{6}$

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Check Point

Complete: $4\frac{2}{5} = \frac{\text{...............}}{\text{...............}}$ in its improper fraction


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى




3 Any improper fraction can be converted into a mixed number by using two methods:

Ex. To convert the improper fraction $\frac{9}{4}$ into a mixed number, we have two methods:

First method

$\frac{9}{4} = \frac{8}{4} + \frac{1}{4}$

$= 2 + \frac{1}{4}$

So, $\frac{9}{4} = 2\frac{1}{4}$

Second method

Step 1 Divide 9 by 4 as in the opposite:

quotient ← 2
divisor ← 4 ⟌ 9
− 8
remainder ← 1

Step 2 We write:

$\frac{9}{4}$ = quotient $\frac{\text{remainder}}{\text{divisor}}$

So, $\frac{9}{4} = 2\frac{1}{4}$



Solved Example 3

Convert each of the following into a mixed number:

a) $\frac{39}{4}$ ***b)*** $\frac{51}{7}$

Solution

ⓐ $\frac{39}{4} = \frac{36}{4} + \frac{3}{4}$

$= 9 + \frac{3}{4}$

$= 9\frac{3}{4}$

or

9
4 ⟌ 39
-36
3

So, $\frac{39}{4} = 9\frac{3}{4}$



ⓑ $\frac{51}{7} = \frac{49}{7} + \frac{2}{2}$

$= 7 + \frac{2}{7}$

$= 7\frac{2}{7}$

or

7
7 ⟌ 51
-49
2

So, $\frac{51}{7} = 7\frac{2}{7}$

Check Point

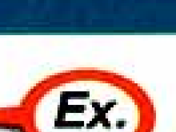


Convert each of the following into mixed numbers:

(a) $\frac{29}{3}$ = ...   (b) $\frac{50}{9}$ = ...

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Comparing between two fractions of different numerators and denominators:

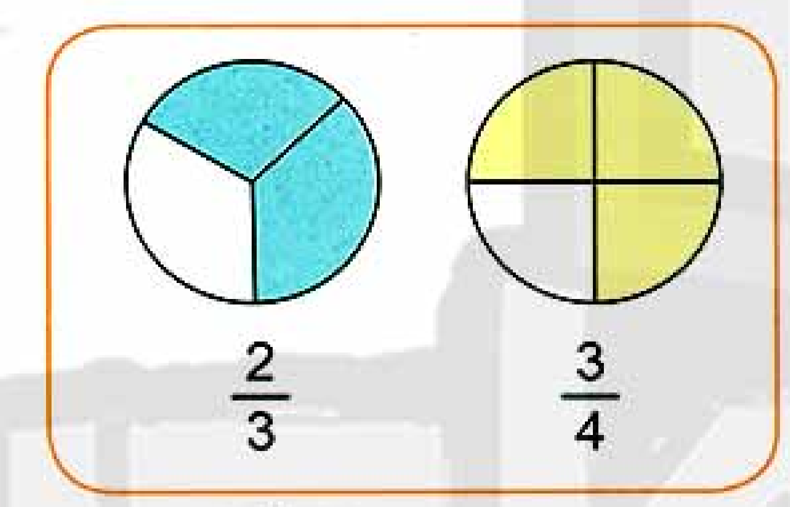
Ex. ***To compare between $\frac{6}{9}$ and $\frac{9}{12}$, we follow these steps:***

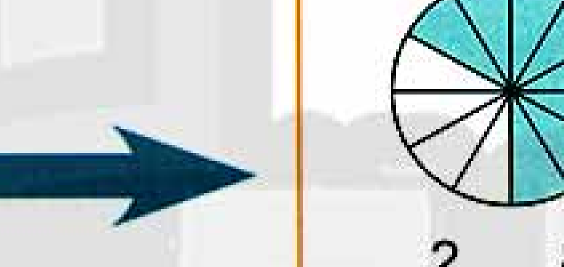
Step 1 Simplify each of the two fractions in its simplest form (if it is possible)

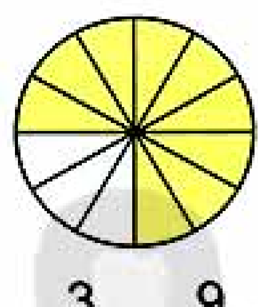
So, $\frac{6}{9}\,{}^{\div 3}_{\div 3} = \frac{2}{3}$ and $\frac{9}{12}\,{}^{\div 3}_{\div 4} = \frac{3}{4}$

Step 2 We notice that $\frac{2}{3}$ and $\frac{3}{4}$ have different denominators and numerators.

So, we write the two fractions as $\frac{2}{3} = \frac{8}{12}$, $\frac{3}{4} = \frac{9}{12}$ (where 12 is the L.C.M of 3 and 4)







Step 3 Since $\frac{8}{12} < \frac{9}{12}$, then $\frac{2}{3} < \frac{3}{4}$ thus $\frac{6}{9} < \frac{9}{12}$

Solved Example 4



Put the suitable sign (< , > or =)

(a) $\frac{2}{3}$ .... $\frac{5}{7}$

(b) $\frac{6}{10}$ .... $\frac{8}{12}$



Solution

(a) $\frac{2}{3} = \frac{14}{21}$, $\frac{5}{7} = \frac{15}{21}$ (L.C.M 3 , 7 is 21) So, $\frac{2}{3} < \frac{5}{7}$

(b) $\frac{6}{10} = \frac{3}{5} = \frac{9}{15}$, $\frac{8}{12} = \frac{2}{3} = \frac{10}{15}$ (L.C.M 5 , 3 is 15) So, $\frac{6}{10} < \frac{8}{12}$

Check Point



Compare by using (< , > or =):

(a) $\frac{3}{8}$ .... $\frac{2}{5}$

(b) $\frac{6}{18}$ .... $\frac{6}{21}$









A quick general method (cross multiplication method) to compare between any two fractions:

Generally: to compare between $\frac{a}{b}$ and $\frac{c}{d}$, therefore we get: a × d and b × c:

If a × d < b × c : then $\frac{a}{b} < \frac{c}{d}$

or

If a × d > b × c , then $\frac{a}{b} > \frac{c}{d}$

or If a × d = b × c , then $\frac{a}{b} = \frac{c}{d}$

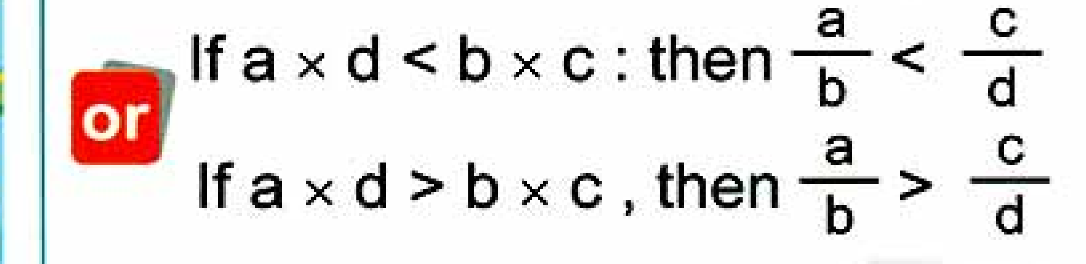
Ex. $\frac{6}{9}$ (72) $\frac{9}{12}$ (81)

Multiply 6 × 12 = 72

Multiply 9 × 9 = 81

because 72 < 81

therefore $\frac{6}{9} < \frac{9}{12}$

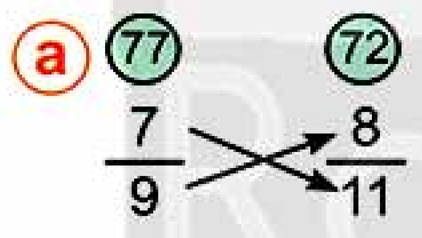




Solved Example 5

Put the suitable sign (< , > or =):

(a) $\frac{7}{9}$ .... $\frac{8}{11}$ (b) $\frac{8}{5}$ .... $2\frac{1}{7}$



Solution

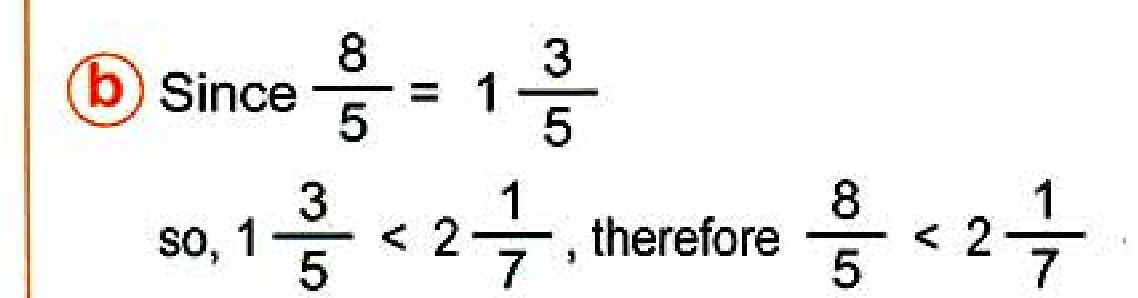
(a) $\frac{7}{9}$ (77) $\frac{8}{11}$ (72)

Since 77 > 72, therefore $\frac{7}{9} > \frac{8}{11}$

(b) Since $\frac{8}{5} = 1\frac{3}{5}$

so, $1\frac{3}{5} < 2\frac{1}{7}$, therefore $\frac{8}{5} < 2\frac{1}{7}$


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IMPORTANT REMARK

1. Any improper fraction is greater than any proper fraction.
2. To compare between a mixed number and improper fraction, we should convert one of them to the other.

Check Point



Compare by using (< , > or =):

(a) $\frac{7}{5}$ .... $\frac{8}{11}$ (b) $\frac{7}{6}$ .... $1\frac{5}{8}$

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Ordering Fractions:

To order the fractions ascendingly or descendingly, the following should be noted:

- Any proper fraction is smaller than "1".

  i.e. $\frac{7}{25} < 1$, $\frac{13}{35} < 1$, and so on.

- Any an improper fraction or a mixed number is greater than "1".

  i.e. $\frac{23}{7} > 1$, $\frac{19}{13} > 1$, and so on.

- Any improper fraction is greater than any proper fraction.

  i.e. $\frac{7}{5} > \frac{13}{20}$, $\frac{10}{7} > \frac{200}{217}$, and so on.



Solved Example 6

Arrange in descending order:

ⓐ $\frac{5}{6}$, $\frac{3}{4}$, $\frac{7}{12}$ and $\frac{2}{3}$

ⓑ $2\frac{1}{8}$, $\frac{11}{8}$, $\frac{5}{8}$ and $\frac{15}{8}$

Solution

ⓐ L.C.M. of the denominators = 12

$\frac{5}{6} = \frac{10}{12}$ and $\frac{3}{4} = \frac{9}{12}$, $\frac{2}{3} = \frac{8}{12}$

So, the descending order is:

$\frac{10}{12}$, $\frac{9}{12}$, $\frac{8}{12}$, $\frac{7}{12}$ *i.e.* $\frac{5}{6}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{7}{12}$

ⓑ $\frac{11}{8} = 1\frac{3}{8}$, $\frac{15}{8} = 1\frac{7}{8}$ and $1\frac{7}{8} > 1\frac{3}{8}$ because $\frac{7}{8} > \frac{3}{8}$

then $2\frac{1}{8} > 1\frac{7}{8} > 1\frac{3}{8} > \frac{5}{8}$

So, the descending order is: $2\frac{1}{8}$, $\frac{15}{8}$, $\frac{11}{8}$, $\frac{5}{8}$

Remember that

L.C.M of the denominators is the smallest number that can be divisible by all denominators

i.e.

6 = 2 × 3
4 = 2 × 2
12 = 2 × 3 × 2
3 = 3

then L.C.M = 2 × 3 × 2 = 12

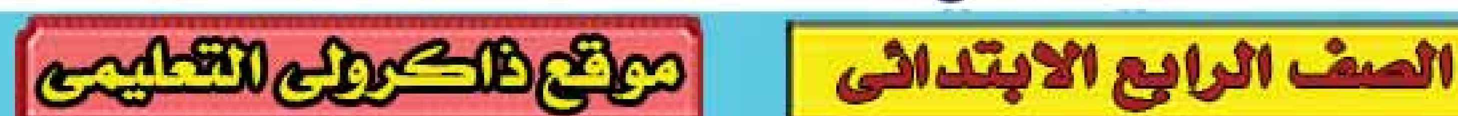


Check Point

Arrange in descending order: $\frac{4}{7}$, $2\frac{1}{3}$, $1\frac{6}{9}$, $\frac{5}{21}$







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Representing the fractions on the number line:

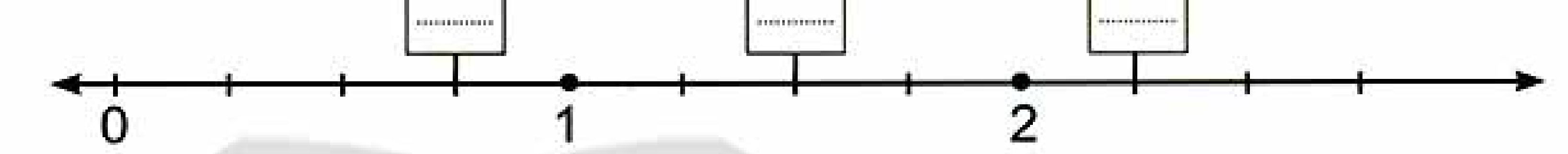
The fractions are arranged on the number line ascendingly from left to the right.

Solved Example 7

Write each number in its suitable place on the number line:

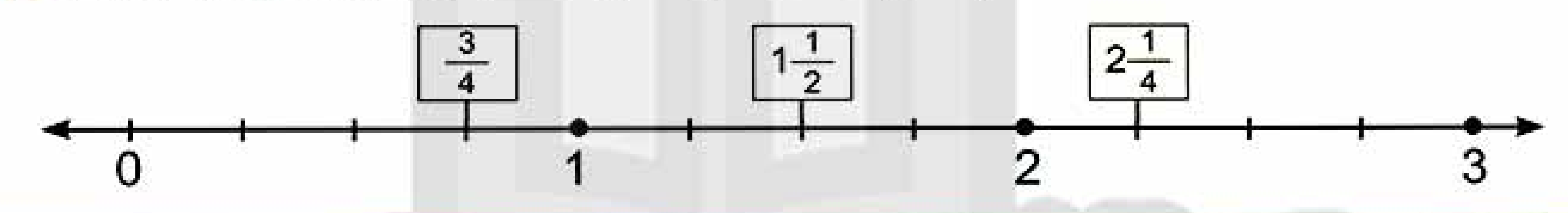
$\frac{3}{4}$, $2\frac{1}{4}$, $1\frac{1}{2}$





Solution

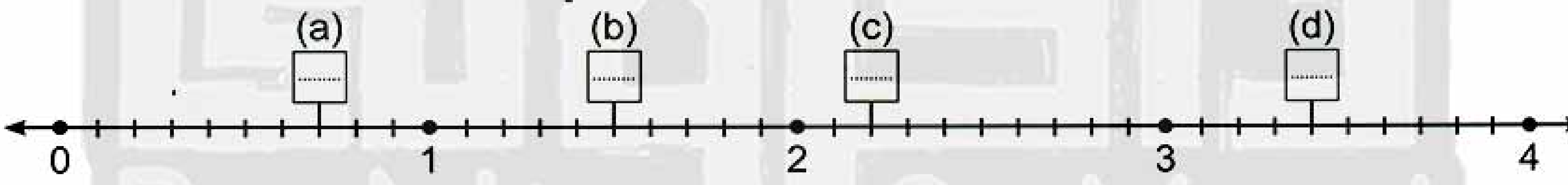
Note that: Each whole one is divided into four equal parts:



Solved Example 8

Write the fraction that represents each card on the number line:





Solution

Note that: Each whole one is divided into ten equal parts:

Card (a) $\frac{7}{10}$, Card (b) $1\frac{5}{10} = 1\frac{1}{2}$

Card (c) $2\frac{2}{10} = 2\frac{1}{5}$, Card (d) $3\frac{4}{10} = 3\frac{2}{5}$

Check Point



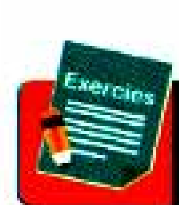
Write each of the following in its suitable place on the given number line:

$1\frac{3}{10}$, $\frac{17}{10}$, $2\frac{1}{2}$, $\frac{9}{10}$, $\frac{33}{10}$

0 1 2 3







EXERCISE 1 (B) More about fractions



1 *Write each of the following mixed numbers into an improper fraction (as the example):*

Ex. $2\frac{1}{4} = \frac{(2 \times 4) + 1}{4} = \frac{8 + 1}{4} = \frac{9}{4}$

a) $3\frac{2}{5} = \frac{.....}{....}$

b) $4\frac{3}{10} = \frac{.....}{....}$

c) $2\frac{1}{5} = \frac{.....}{....}$

d) $10\frac{1}{2} = \frac{.....}{....}$

e) $3\frac{1}{4} = \frac{.....}{....}$

f) $4\frac{1}{10} = \frac{.....}{....}$

g) $7\frac{1}{3} = \frac{.....}{....}$

h) $5\frac{3}{4} = \frac{.....}{....}$

2 *Convert each of the following into a mixed number as the example:*

Ex. $\frac{8}{3} = 2\frac{2}{3}$

denominator → 3) 8 → 2 (whole); 8 − 6 = 2 → numerator (remainder)

a) $\frac{5}{4} = ... \frac{.....}{.....}$ 4) 5

b) $\frac{11}{10} = ... \frac{.....}{.....}$ 10) 11

c) $\frac{42}{5} = ... \frac{.....}{.....}$ 5) 42

d) $\frac{18}{5} = ... \frac{.....}{.....}$ 5) 18

e) $\frac{9}{2} = ... \frac{.....}{.....}$ 2) 9

f) $\frac{18}{4} = ... \frac{.....}{.....}$ 4) 18

g) $\frac{63}{10} = ... \frac{.....}{.....}$ 10) 63

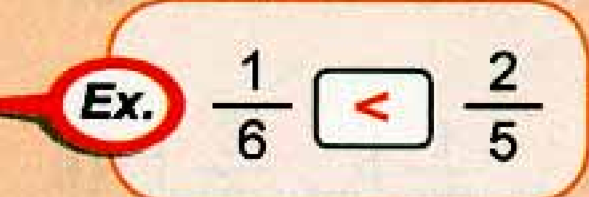
h) $\frac{79}{11} = ... \frac{.....}{.....}$ 11) 79

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3 Put the suitable sign (< , > or =) as the example:



a) 1 .... $\frac{5}{7}$

b) $\frac{3}{7}$ .... $\frac{1}{8}$

c) $\frac{2}{5}$ .... $\frac{5}{10}$

d) $\frac{8}{12}$ .... $\frac{2}{3}$

e) $\frac{5}{6}$ .... $\frac{2}{3}$

f) $\frac{6}{7}$ .... $\frac{5}{6}$

g) $5\frac{3}{4}$ .... $3\frac{8}{9}$

h) $2\frac{5}{10}$ .... $2\frac{7}{14}$

4 Compare between each of the two fractions:

a) $\frac{4}{7}$, $\frac{2}{3}$

....

b) $\frac{3}{5}$, $\frac{2}{9}$

....

c) $\frac{8}{9}$, $\frac{9}{10}$

....

d) $1\frac{2}{5}$, $2\frac{3}{11}$

....

e) $\frac{5}{42}$, $\frac{3}{7}$

....

f) $\frac{7}{8}$, $\frac{5}{24}$

....

g) $1\frac{2}{5}$, $1\frac{3}{4}$

....

h) $2\frac{3}{8}$, $2\frac{5}{9}$

....

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5 *Arrange in ascending order:*

a) $\frac{3}{5}$, $\frac{2}{3}$, $\frac{7}{15}$

The order is: ....

b) $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$, $\frac{13}{16}$

The order is: ....

c) $\frac{2}{3}$, $\frac{7}{8}$, $\frac{5}{6}$, $\frac{1}{4}$

The order is: ....

d) $\frac{5}{3}$, $\frac{7}{2}$, $1\frac{3}{4}$, $\frac{5}{6}$

The order is: ....

e) $8\frac{1}{7}$, $8\frac{3}{7}$, 9 , $8\frac{4}{7}$

The order is: ....

6 *Arrange in descending order:*

a) $\frac{3}{4}$, $\frac{2}{3}$, $\frac{7}{12}$

The order is: ....

b) $\frac{1}{3}$, $\frac{2}{3}$, $\frac{5}{6}$, $\frac{1}{2}$

The order is: ....

c) $\frac{2}{7}$, 1 , $\frac{1}{2}$, $\frac{9}{14}$

The order is: ....

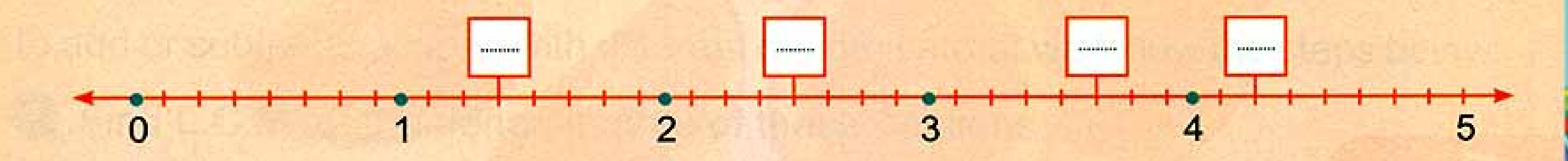
d) $\frac{3}{4}$, $\frac{1}{5}$, $\frac{7}{10}$, $\frac{1}{2}$

The order is: ....

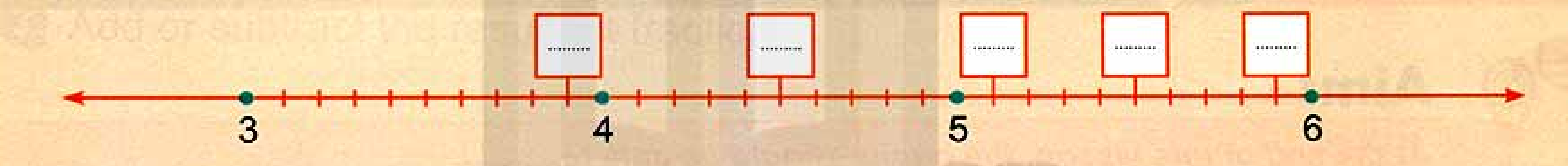
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7 ***Write each of the following numbers in its suitable place on the number line:***

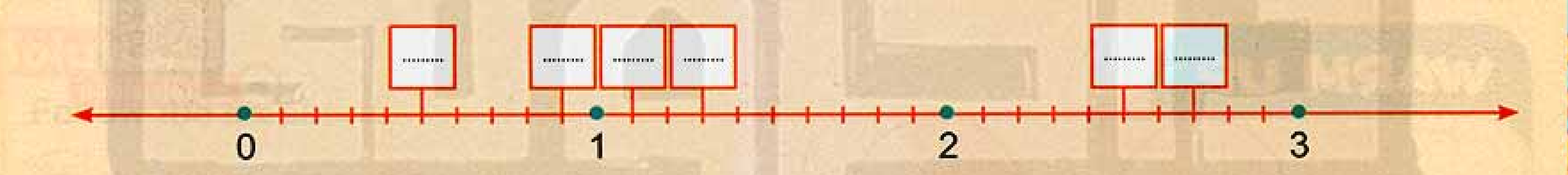
a) $1\frac{3}{8}$, $4\frac{1}{4}$, $2\frac{4}{8}$, $3\frac{5}{8}$



b) $4\frac{1}{2}$, $5\frac{1}{10}$, $3\frac{9}{10}$, $5\frac{1}{2}$, $5\frac{9}{10}$



c) $1\frac{1}{10}$, $2\frac{1}{2}$, $\frac{9}{10}$, $1\frac{3}{10}$, $2\frac{7}{10}$, $\frac{1}{2}$



FOR EXCELLENT PUPILS

8 ***Write each of the following numbers in its suitable place on the given number line:***

$2\frac{1}{2}$, $\frac{11}{5}$, $\frac{13}{5}$, $1\frac{38}{20}$











Lesson 1C

FRACTIONS

Adding and subtracting fractions that have different denominators



Aims

At the end of this lesson, the pupils should be able to:

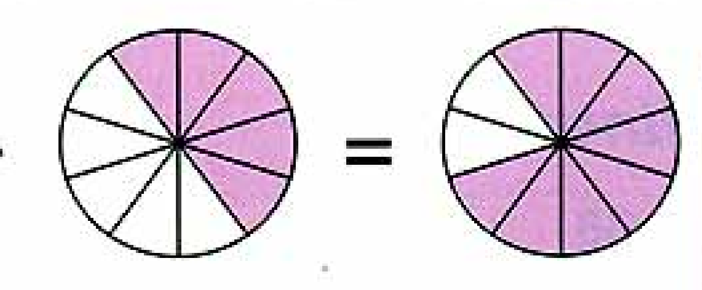
- add and subtract the fractions that have different denominators.



WARM UP

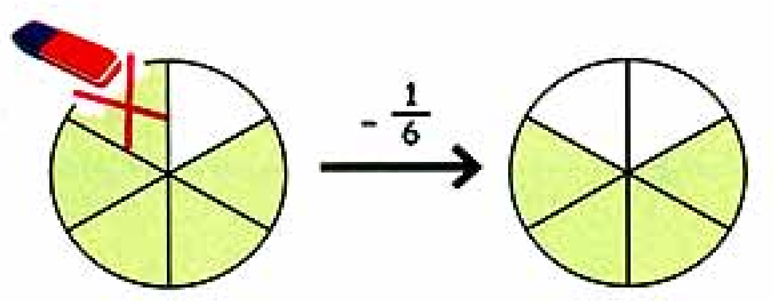
- Mai asked her mother about how to add the fractions.
- Her mother said, she should remember firstly how to add and subtract the fractions that have same denominators as:

$\frac{3}{10} + \frac{5}{10} = \frac{8}{10} = \frac{4}{5}$





$\frac{5}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$



Now: Let us know how to add and subtract fractions that have different denominators such as: $\frac{1}{2} + \frac{1}{3}$ or $\frac{1}{2} - \frac{1}{3}$

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Adding and subtracting fractions that have different denominators:

Rule

To add or subtract fractions with different denominators: we follow the steps below:

1. Find L.C.M. of the denominators of these fractions.
2. Change the fractions into equivalent fractions but with a common denominator by using the L.C.M of the denominators of the fractions.
3. Add or subtract the resultant fraction.

Solved Example 1

Add $\frac{1}{3} + \frac{1}{2}$

Solution

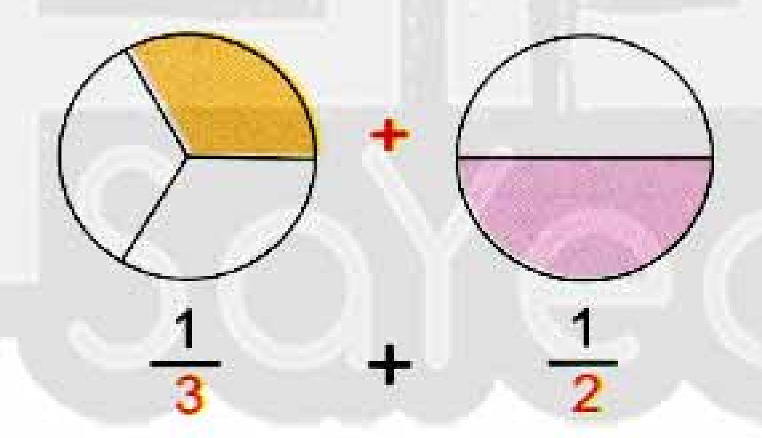
Follow the steps:

1st Find the L.C.M. of 2,3 which is = 6

$\frac{1}{3} + \frac{1}{2}$

2nd Make equivalent fractions

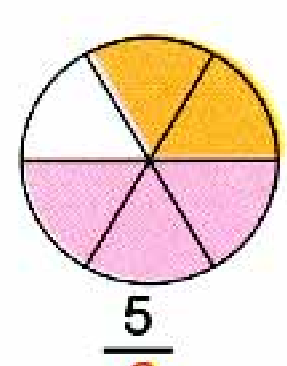
$\frac{1}{3} = \frac{2}{6}$, $\frac{1}{2} = \frac{3}{6}$



$\frac{2}{6} + \frac{3}{6}$

3rd Add the two resultant fractions, as:

$\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$



$\frac{5}{6}$

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Solved Example 2

① **Add:** $\frac{3}{5} + \frac{3}{4}$ ② **Subtract:** $\frac{5}{8} - \frac{1}{2}$

Solution

ⓐ L.C.M. of the denominators = 5 × 4 = 20

Then $\frac{3}{5} + \frac{3}{4} = \frac{12}{20} + \frac{15}{20} = \frac{27}{20} = 1\frac{7}{20}$

ⓑ L.C.M. of the denominators = 8

Then $\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8} = \frac{1}{8}$

Solved Example 3

Find the result of each of the following:

ⓐ $3\frac{1}{2} - 1\frac{5}{8}$ ⓑ $5 - 2\frac{3}{7}$ ⓒ $(7\frac{1}{5} + 5\frac{1}{4}) - 10\frac{1}{2}$

Solution

ⓐ L.C.M. = 8

$3\frac{1}{2} - 1\frac{5}{8} = 3\frac{4}{8} - 1\frac{5}{8}$

$= 2\frac{12}{8} - 1\frac{5}{8} = 1\frac{7}{8}$

We can't subtract 4 – 5
So, rename $3\frac{4}{8}$ to $2\frac{12}{8}$
because $3\frac{4}{8} = \frac{8}{8} + 2\frac{4}{8} = 2\frac{12}{8}$

ⓑ $5 - 2\frac{3}{7} = 4\frac{7}{7} - 2\frac{3}{7} = 2\frac{4}{7}$

Rename $5 = 4 + \frac{7}{7} = 4\frac{7}{7}$

ⓒ L.C.M. = 20

$(7\frac{1}{5} + 5\frac{1}{4}) - 10\frac{1}{2} = (7\frac{4}{20} + 5\frac{5}{20}) - 10\frac{10}{20}$

$= 12\frac{9}{20} - 10\frac{10}{20} = 11\frac{29}{20} - 10\frac{10}{20} = 1\frac{19}{20}$



Check Point

Find the result:

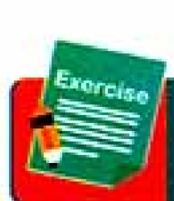
(a) $2\frac{1}{3} - 1\frac{1}{2}$ = ...

(b) $4 - 2\frac{3}{7}$ = ...









Exercise 1 (C) Adding and subtractig fractions that have different denominators



1 *Add the following:*

a) $\frac{1}{2} + \frac{1}{4}$

b) $\frac{1}{2} + \frac{2}{3}$

c) $\frac{1}{3} + \frac{1}{6}$

d) $\frac{5}{9} + \frac{1}{3}$

e) $\frac{3}{10} + \frac{2}{5}$

f) $\frac{2}{5} + \frac{3}{7}$

2 *Subtract the following:*

a) $\frac{5}{6} - \frac{2}{3}$

b) $\frac{1}{4} - \frac{1}{5}$

c) $\frac{5}{6} - \frac{1}{3}$

d) $\frac{3}{4} - \frac{3}{20}$

e) $\frac{4}{5} - \frac{3}{7}$

f) $\frac{7}{9} - \frac{1}{3}$

3 *Choose the correct answer from that between the brackets:*

a) $\frac{1}{2} + \frac{1}{3} =$ .... ($\frac{3}{5}$ or $\frac{5}{6}$ or $\frac{3}{8}$ or $\frac{3}{7}$)

b) $1 - \frac{1}{4} =$ .... ($\frac{2}{7}$ or $\frac{3}{8}$ or $\frac{3}{4}$ or $\frac{5}{8}$)

c) $\frac{3}{4} - \frac{1}{2} =$ .... ($\frac{1}{4}$ or $\frac{2}{5}$ or $\frac{3}{11}$ or $\frac{7}{9}$)

d) $\frac{1}{6} + \frac{1}{2} =$ .... ($\frac{1}{3}$ or $\frac{5}{8}$ or 1 or $\frac{2}{3}$)

4 *Find in the simplest form:*

a) $\frac{2}{3} + \frac{3}{4}$

b) $\frac{5}{6} - \frac{1}{3}$

c) $1\frac{4}{7} - \frac{10}{21}$

d) $2\frac{5}{8} + \frac{3}{4}$

e) $7 - 3\frac{5}{6}$

f) $4\frac{1}{2} + 2\frac{1}{5}$

g) $5\frac{1}{8} + 2\frac{1}{4}$

h) $3\frac{1}{2} + 1\frac{2}{5}$

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5 Find in the simplest form:

a) $\left(\frac{6}{7}+\frac{5}{7}\right)-\frac{3}{7}$

b) $\left(1-\frac{5}{6}\right)+\frac{7}{6}$

c) $\left(2-\frac{3}{4}\right)+\frac{5}{4}$

d) $\left(3+\frac{7}{5}\right)+\frac{1}{5}$

e) $\left(\frac{5}{2}+1\frac{1}{4}\right)-\frac{6}{8}$

f) $\left(9\frac{2}{3}-5\frac{1}{6}\right)+1\frac{1}{2}$

g) $\left(3\frac{1}{4}+1\frac{1}{3}\right)-\frac{15}{12}$

h) $\left(7\frac{2}{5}-4\frac{1}{6}\right)-\frac{32}{30}$

6 Choose the correct answer for each of the following:

a) $\frac{3}{24}-\frac{1}{8}=$ ....
- 0
- $\frac{1}{8}$
- $\frac{1}{4}$
- 1

b) $2+\frac{5}{6}=$ ....
- $\frac{1}{6}$
- $\frac{7}{6}$
- $\frac{17}{6}$
- $\frac{5}{12}$

c) $5-\frac{1}{3}=$ ....
- $5\frac{1}{3}$
- $4\frac{2}{3}$
- $4\frac{1}{3}$
- $\frac{16}{3}$

d) $3-2\frac{4}{5}$ ....
- $1\frac{4}{5}$
- $1\frac{1}{5}$
- $\frac{4}{5}$
- $\frac{1}{5}$

e) $3\frac{1}{9}-1\frac{1}{3}=$ ....
- $2\frac{1}{3}$
- $2\frac{1}{9}$
- $1\frac{7}{9}$
- $2\frac{1}{27}$

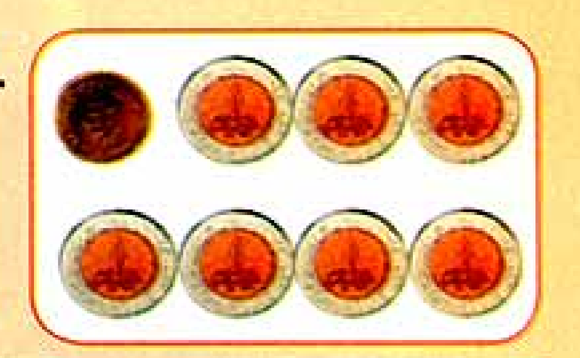
f) $1\frac{3}{8}+2\frac{1}{7}=$ ....
- $3\frac{4}{36}$
- $3\frac{1}{8}$
- $3\frac{5}{17}$
- $3\frac{29}{56}$

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LIFE PROBLEMS

7 Nancy had seven pounds and a half. She gave her brother two pounds and a quarter.

How much money was left with Nancy?



8 The weights of 3 boxes of fruits are $3\frac{1}{2}$, $5\frac{3}{8}$ and $4\frac{1}{4}$ kg.

Find the total weight of these boxes.



9 A man bought 1 kg of apple for $12\frac{1}{4}$ pounds and 1 kg of orange for $6\frac{1}{2}$ pounds.

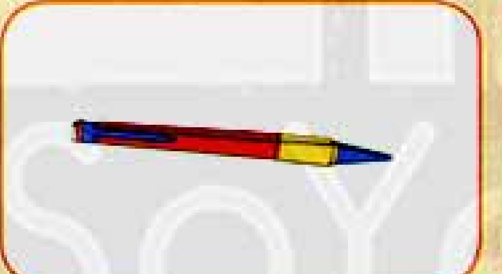
How much money did he pay?



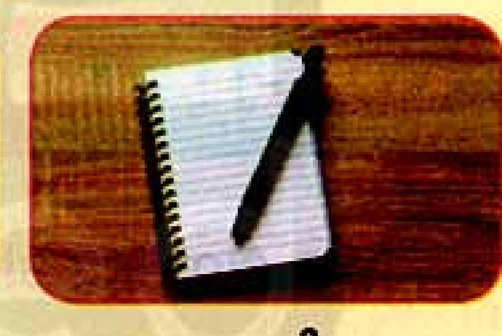


10 Ahmed has L.E.10. He bought a pen for L.E. $3\frac{1}{4}$ and a notebook for L.E. $2\frac{3}{4}$

Find the remainder with Ahmed.



L.E. $3\frac{1}{4}$



L.E. $2\frac{3}{4}$



FOR EXCELLENT PUPILS

11 ***Complete each of the following:***

a) $2\frac{1}{2} = \frac{....}{10}$

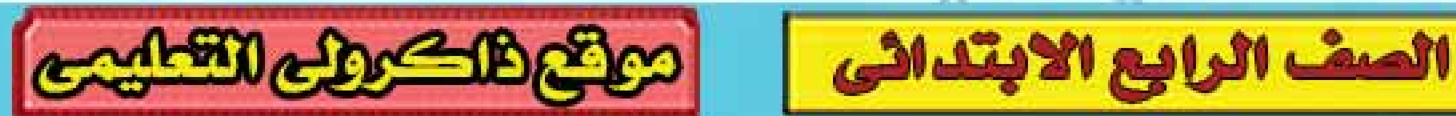
b) $5\frac{1}{4} = \frac{....}{100}$

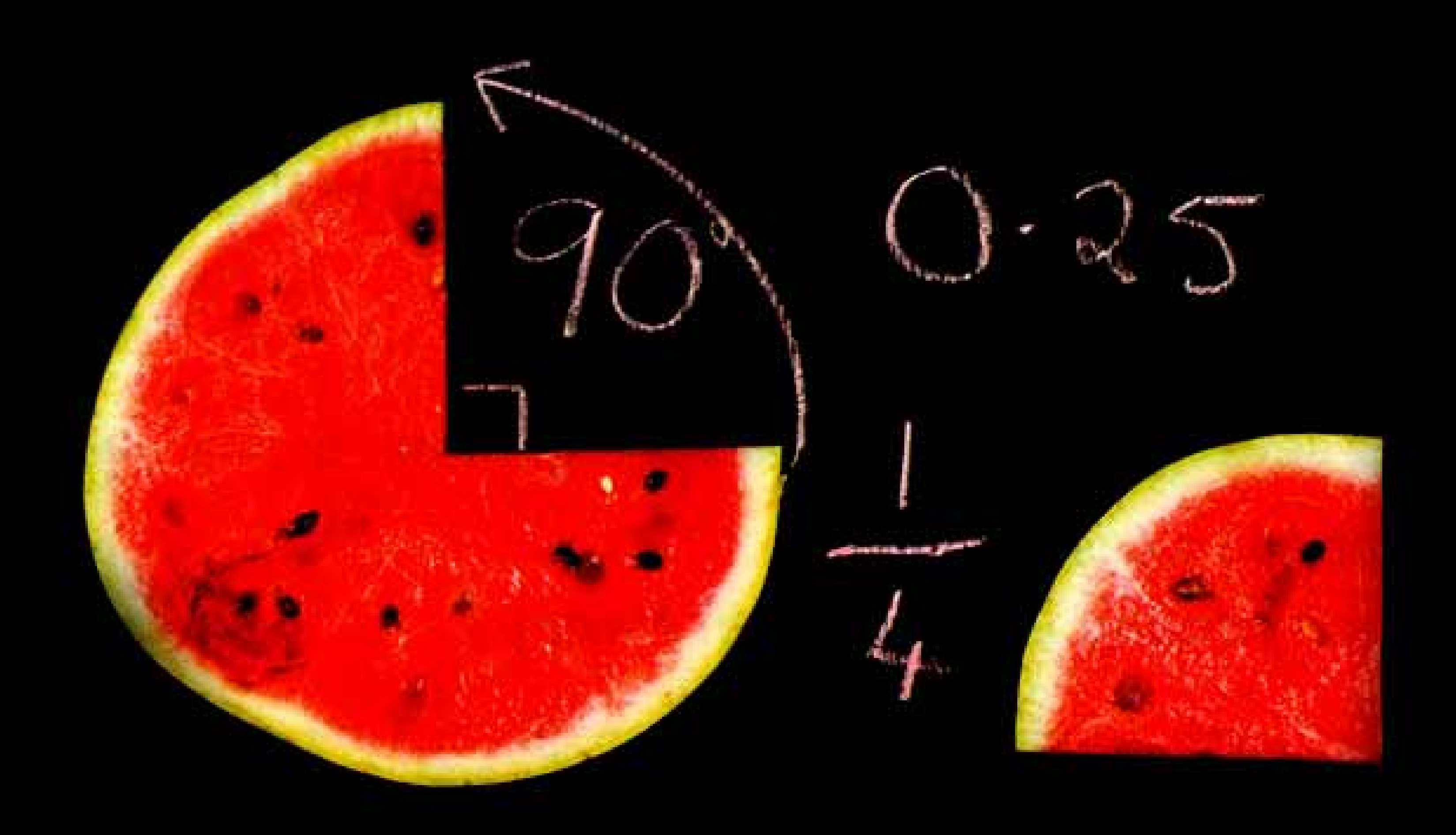
c) $3\frac{1}{8} = \frac{....}{1000}$

d) $1\frac{1}{125} = \frac{....}{1000}$

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2
Lesson

DECIMAL NUMBERS



Aims

At the end of this lesson, the pupil should be able to:

(1) recognise the meaning of the decimal numbers (over 10 , 100 and 1000 , ...).

(2) recognise the place value and the value of decimals.

(3) gain the skill of converting some fractions into decimals and represent them on the number line.



WARM UP

- In a clothes shop, Samira asked the assistant about the price written on the label of a T-shirt.

  He told her that it was thirty point 5 pounds (it is called a decimal number).



- Let us know in this lesson the meaning of decimal numbers as:

  17.6 , 2.05, 1.72 , etc.







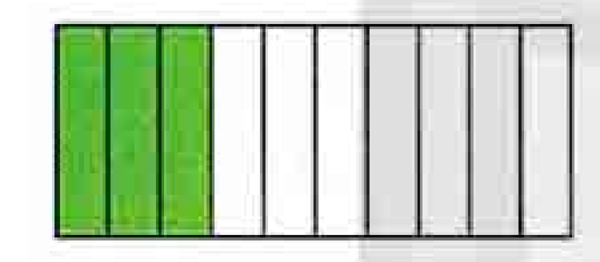
LESSON 2 Decimal numbers



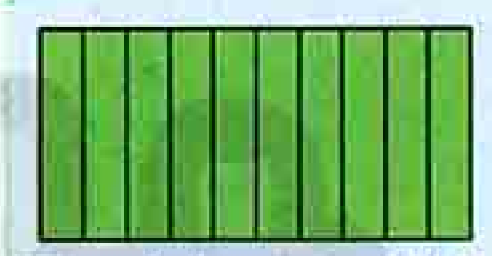
First Introduction:

Fractions which have denominators 10, 100, 1000, ………… could be written by using a point (.) which is called a decimal point.

(1) Fractions with denominator 10:







Note that

The whole one is divided into ten parts.

i.e $1 = \frac{10}{10}$

fractional form — decimal form

$$\frac{3}{10} = 0.3$$

It is read as "three tenths" or "zero point three".



Remark (1)

a) $\frac{13}{10} = 1.3$ (is read as one and three tenths or one point three)

, $\frac{217}{10} = 21.7$ (is read as twenty one and seven tenths or twenty one point seven)

and also $\frac{1315}{10} = 131.5$, ... so on.

b) The decimal form of any number consists of two parts, a whole number and a decimal as example:

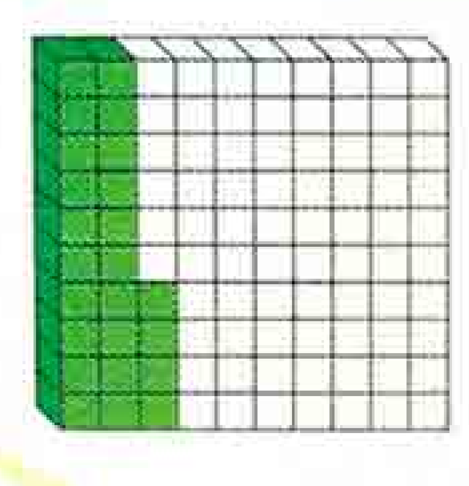
1 . 3

1 is the whole number part (1 unit)

0.3 is the decimal part (3 tenths)

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(2) Fractions with denominator 100:



Note that

$1 = \frac{100}{100}$

The whole one equals 100 equal parts.

fractional form | decimal form

$$\frac{24}{100} = 0.24$$

It is read as twenty four hundredths or zero point two four.

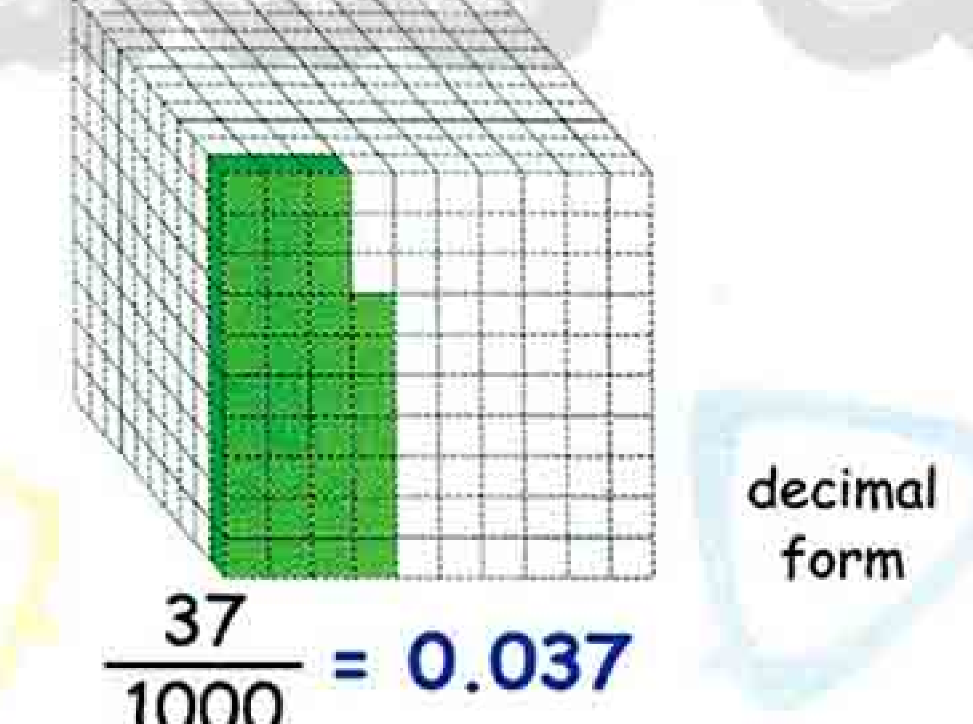


$\frac{4}{100} = 0.04$ (is read as four hundredths or zero point zero four)

, $\frac{528}{100} = 5.28$ (is read as five and twenty eight hundredths or five point two eight)

and also $\frac{1729}{100} = 17.29$, ... so on.

(3) Fractions with denominator 1000:



Note that

$1 = \frac{1000}{1000}$

The whole one equals 1000 equal parts.

fractional form | decimal form

$$\frac{37}{1000} = 0.037$$

It is read as thirty seven thousandths.
or Zero point zero three seven.

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Remark (3)

$\frac{3}{1000}$ = 0.003 (is read as three thousandths or zero point zero zero three)

, $\frac{395}{1000}$ = 0.395 (is read as three hundred ninety five thousandths or zero point three nine five)

and also $\frac{2738}{1000}$ = 2.738 , $\frac{73589}{1000}$ = 73.589 , ... so on.

More examples

1. $1\frac{3}{100} = 1.03$ One and three hundredths or (one point zero three)
2. $97\frac{86}{100} = 97.86$ Ninety-seven and eighty-six hundredths or (ninety-seven point eight six)
3. $3\frac{7}{1000} = 3.007$ Three and seven thousandths or (three point zero zero seven)
4. $7\frac{215}{1000} = 7.215$ Seven and two hundred fifteen thousandths or (seven point two one five)

Second The place value and the numerical value of decimals:



Decimal point

The place value	Hundreds	Tens	Units	.	Tenths	Hundredths	Thousandths
	1	3	2	.	7	8	9
The value of	100	30	2		0.7 or $(\frac{7}{10})$	0.08 or $(\frac{8}{100})$	0.009 or $(\frac{9}{1000})$

It is read as One hundred thirty two point seven eight nine **or** one hundred thirty two and seven hundred eighty nine thousandths.

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UNIT 1

Third Converting fractions into decimals:

1. To convert a fraction with a denominator 10 into a decimal form, put the decimal point (.) after one digit from the right.

For example:

$\frac{23}{10} = 2.3$, $\frac{225}{10} = 22.5$, $\frac{56}{10} = 5.6$, $\frac{7}{10} = 0.7$

2. To convert a fraction with denominator 100 into a decimal form, put the decimal point (.) after two digits from the right.

For example:

$\frac{243}{100} = 2.43$, $\frac{805}{100} = 8.05$, $\frac{8}{100} = 0.08$

Note that $\frac{8}{100} = \frac{08}{100}$

3. To convert a fraction with denominator 1000 into a decimal form, put the decimal point (.) after three digits from the right.

For example:

$\frac{1532}{1000} = 1.532$, $\frac{709}{1000} = 0.709$, $\frac{7}{1000} = 0.007$

Note that $\frac{7}{1000} = \frac{007}{1000}$

Example 1

- Convert each of the following into a decimal form:

a) $4\frac{7}{10}$ b) $2\frac{9}{10}$ c) $9\frac{1}{10}$ d) $\frac{63}{10}$ e) $\frac{8}{10}$

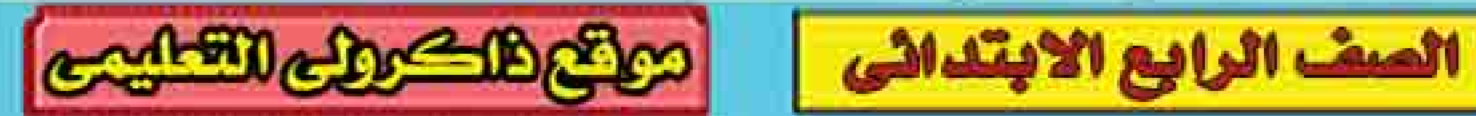
f) $\frac{312}{10}$ g) $\frac{725}{100}$ h) $\frac{9319}{1000}$ i) $\frac{5}{100}$ j) $13\frac{7}{1000}$

Solution

a) $4\frac{7}{10} = 4.7$ b) $2\frac{9}{10} = 2.9$ c) $9\frac{1}{10} = 9.1$ d) $\frac{63}{10} = 6.3$

e) $\frac{8}{10} = 0.8$ f) $\frac{312}{10} = 31.2$ g) $\frac{725}{100} = 7.25$ h) $\frac{9319}{1000} = 9.319$

i) $\frac{5}{100} = 0.05$ j) $13\frac{7}{1000} = 13.007$


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4 To convert a fraction or a mixed number which does not have 10 or 100 or 1000 in its denominator into a decimal form, we try to get an equivalent fraction with denominator 10 or 100 or 1000 or .... etc.

For example:

* $\frac{2}{5} = \frac{4}{10} = 0.4$
* $\frac{7}{25} = \frac{28}{100} = 0.28$, ... so on

Example 2

- **Write in a decimal form:**

a) $5\frac{7}{25}$ b) $17\frac{3}{8}$ c) $2\frac{17}{50}$ d) $12\frac{113}{250}$ e) $\frac{3}{200}$

Solution

a) $5\frac{7}{25} = 5\frac{7 \times 4}{25 \times 4} = 5\frac{28}{100} = 5.28$

b) $17\frac{3}{8} = 17\frac{3 \times 125}{8 \times 125} = 17\frac{375}{1000} = 17.375$

c) $2\frac{17}{50} = 2\frac{17 \times 2}{50 \times 2} = 2\frac{34}{100} = 2.34$

d) $12\frac{113}{250} = 12\frac{113 \times 4}{250 \times 4} = 12\frac{452}{1000} = 12.452$

e) $\frac{3}{200} = \frac{3 \times 5}{200 \times 5} = \frac{15}{1000} = 0.015$

Remember that

2 × 5 = 10	2 × 500 = 1000
2 × 50 = 100	4 × 250 = 1000
20 × 5 = 100	40 × 25 = 1000
4 × 25 = 100	8 × 125 = 1000
200 × 5 = 1000	80 × 125 = 10000

Try to solve

Convert each of the following into decimal form:

a) $\frac{4}{5}$ b) $\frac{11}{2}$ c) $\frac{18}{20}$ d) $3\frac{7}{40}$

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Example 3

- **Complete each of the following:**

a) Four tenths = ………… (in digits)

b) Six and three tenths = ………… (in digits)

c) Twenty seven and nineteen hundredths. (in digits)

d) Two and eighteen thousandths. (in digits)

e) 43.2 = ………… tenths + ……… units + ……… tens.

f) 0.3 + 0.06 + 5 = …………

Solution

a) 0.4 b) 6.3

c) 27.19 d) 2.018

e) 2 tenths + 3 units + 4 tens f) 5.36

Example 4

- **Write the value and the place value of the digit 9 in each of the following numbers:**

a) 5.219 b) 3.95 c) 9.752 d) 7.092

Solution

a) The value of 9 is 0.009, and its place value is thousandths.

b) The value of 9 is 0.9, and its place value is tenths.

c) The value of 9 is 9, and its place value is units.

d) The value of 9 is 0.09, and its place value is hundredths.

Try to solve

Write each of the following in digits:

a) Seventeen and five tenths = …………

b) Two hundred, sixty seven and nine tenths = …………



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Fourth The expandand form:

Example 5

- Complete each of the following:

a) 5.326 = ... + ... = ... + ... + ... + ...

b) 5.63.527 = ... + ... = ... + ... + ... + ...

c) 8.541 = ... + ... = ... + ... + ... + ...

Solution

a) 5.326 = 5 + 0.326 = 5 + 0.3 + 0.02 + 0.006

b) 63.527 = 63 + 0.527 = 63 + 0.5 + 0.02 + 0.007

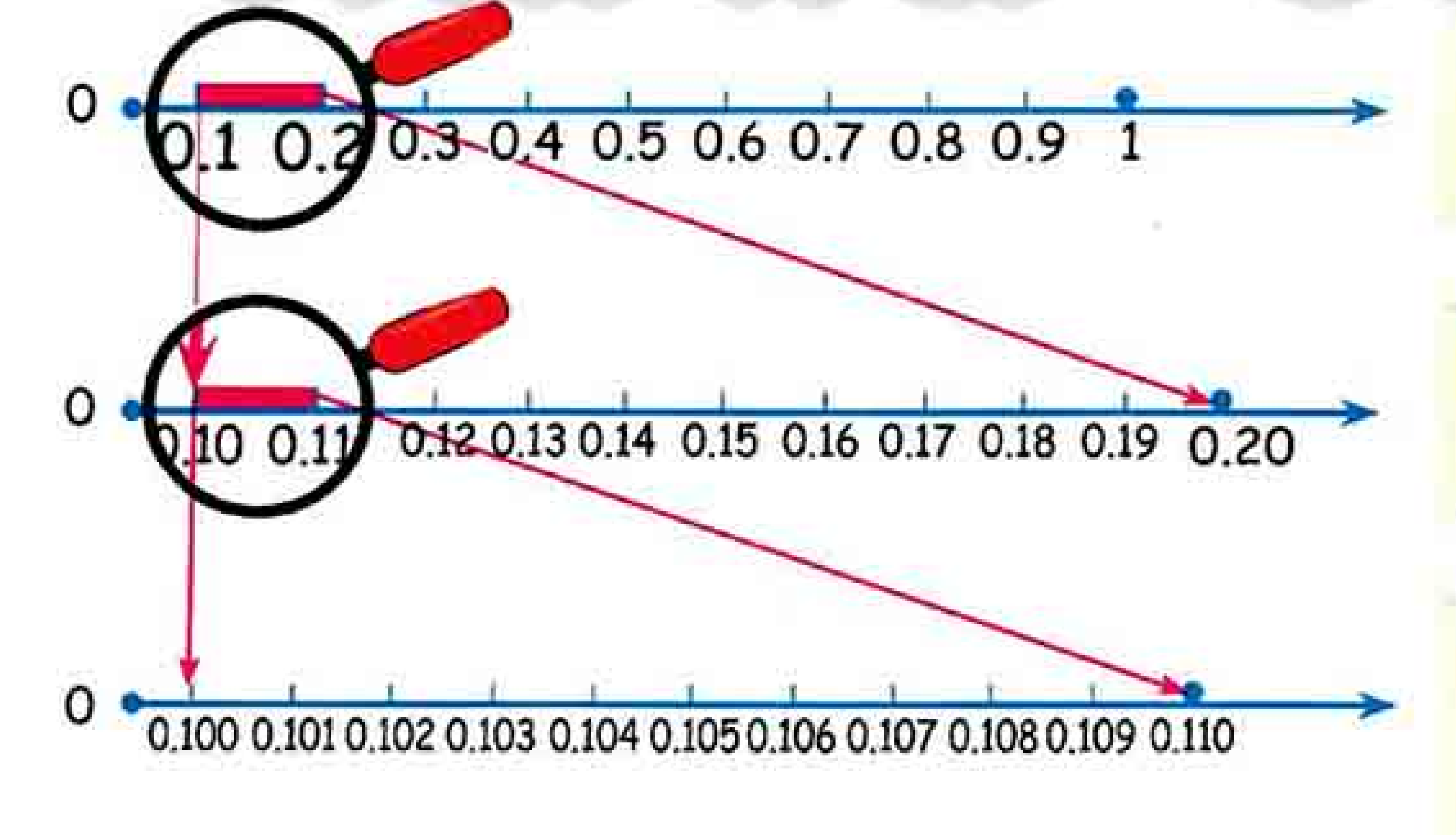
c) 8.541 = 8 + 0.541 = 8 + 0.5 + 0.04 + 0.001

Important Note

1. $\frac{4}{10} = \frac{40}{100}$ so, **0.4 = 0.40**
2. $\frac{2}{10} = \frac{20}{100}$ so, **0.2 = 0.20**
3. $\frac{5}{10} = \frac{500}{1000}$ so, **0.5 = 0.500**

Also 0.1 = 0.10 = 0.100 and 0.7 = 0.70 = 0.700,... so on.

Fifth Representing decimals on the number line:



The whole one is divided into 10 equal parts, each part is called one tenth.

One tenth is divided into 10 equal parts, each part is called one hundredth.

One hundredth is divided into 10 equal parts, each part is called one thousandth.


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Example 6

● Put the following numbers in their suitable places on the number line:

a) 0.52 , 0.59 , 0.55 , 0.57

b) 12.495 , 12.491 , 12.498 , 12.493

▶ Solution

a)



b)

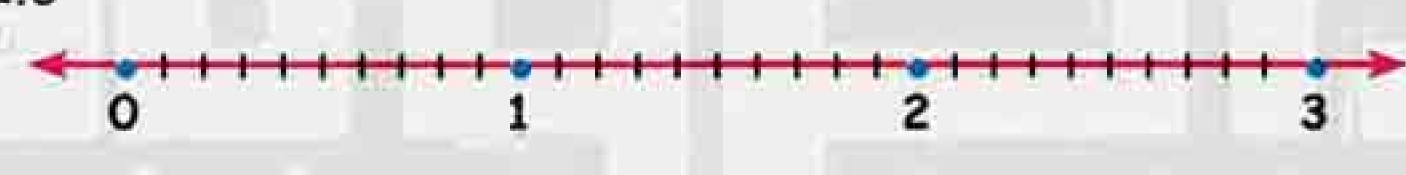




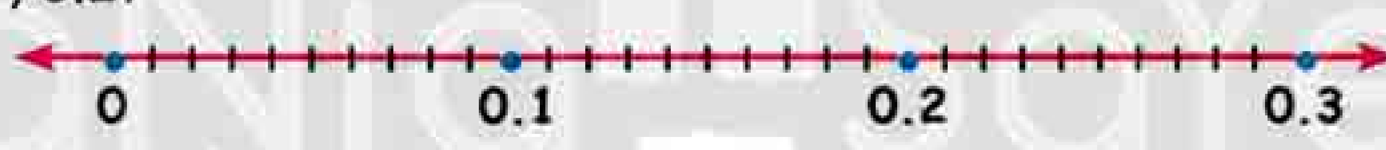
Try to solve

Represent each of the following numbers on the number line:

a) 0.7 , 1.4 , 2.6



b) 0.07 , 0.13 , 0.27






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Solve Ex.

Exercise 3



Decimal numbers

1. Shade the part that represents the shown number as the example:

Example: 2.5

a) 1.7
b) 2.6
c) 0.8
d) 1.4
e) 2.7
f) 0.9
g) 1.3

2. Convert each of the following into a decimal form:

a) $\frac{4}{10}$ = ………… b) $\frac{27}{10}$ = ………… c) $\frac{72}{10}$ = ………… d) $\frac{53}{10}$ = …………

e) $\frac{98}{10}$ = ………… f) $\frac{125}{10}$ = ………… g) $\frac{358}{10}$ = ………… h) $\frac{4367}{10}$ = …………

i) $9\frac{18}{100}$ = ………… j) $95\frac{65}{100}$ = ………… k) $12\frac{1}{100}$ = ………… l) $56\frac{72}{100}$ = …………

m) $911\frac{185}{1000}$ = ………… n) $97\frac{5}{1000}$ = ………… o) $\frac{1209}{1000}$ = ………… p) $\frac{917}{1000}$ = …………

3. Complete each of the following to convert into a decimal form as the example:

Example: $\frac{12}{5} = \frac{12 \times 2}{5 \times 2} = \frac{24}{10} = 2.4$

$\frac{32}{800} = \frac{32 \div 8}{800 \div 8} = \frac{4}{100} = 0.04$, $\frac{23}{125} = \frac{23 \times 8}{125 \times 8} = \frac{184}{1000} = 0.184$

a) $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{\dots\dots}{10} = \dots\dots$

b) $\frac{77}{70} = \frac{77 \div 7}{70 \div 7} = \frac{\dots\dots}{10} = \dots\dots$

c) $\frac{46}{20} = \frac{46 \div 2}{20 \div 2} = \frac{\dots\dots}{\dots\dots} = \dots\dots$

d) $\frac{19}{5} = \frac{\dots \times \dots}{\dots \times \dots} = \frac{\dots\dots}{\dots\dots} = \dots\dots$

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e) $\frac{7}{2} = \frac{\text{......} \times 5}{\text{......} \times \text{......}} = \frac{\text{........}}{\text{........}} = \text{........}$

f) $\frac{9}{5} = \frac{\text{......} \times \text{......}}{\text{......} \times \text{......}} = \frac{\text{........}}{\text{........}} = \text{........}$

g) $\frac{45}{50} = \frac{\text{......} \div \text{......}}{\text{......} \div 5} = \frac{\text{........}}{\text{........}} = \text{........}$

h) $\frac{24}{40} = \frac{\text{......} \div \text{......}}{\text{......} \div 4} = \frac{\text{........}}{\text{........}} = \text{........}$

i) 📖 $\frac{64}{400} = \frac{\text{.....} \div \text{.....}}{\text{.....} \div 4} = \frac{\text{.....}}{\text{.....}} = \text{............}$

j) $\frac{3}{4} = \frac{\text{.....} \times \text{.....}}{\text{.....} \times \text{.....}} = \frac{\text{........}}{\text{........}} = \text{........}$

k) 📖 $\frac{14}{2000} = \frac{\text{.....} \div \text{.....}}{\text{.....} \div \text{.....}} = \frac{\text{.....}}{\text{.....}} = \text{............}$

l) $57\frac{1}{2} = 57\frac{\text{.....} \times \text{.....}}{\text{.....} \times \text{.....}} = 57\frac{\text{........}}{\text{........}} = \text{........}$

m) 📖 $\frac{1002}{300} = \frac{\text{.....} \div \text{.....}}{\text{.....} \div \text{.....}} = \frac{\text{.....}}{\text{.....}} = \text{............}$

n) $\frac{27}{500} = \frac{\text{.....} \times \text{.....}}{\text{.....} \times \text{.....}} = \frac{\text{........}}{\text{........}} = \text{........}$

o) 📖 $\frac{72}{200} = \frac{\text{.....} \div \text{.....}}{\text{.....} \div \text{.....}} = \frac{\text{.....}}{\text{.....}} = \text{............}$

p) $26\frac{1}{25} = 26\frac{\text{.....} \times \text{.....}}{\text{.....} \times \text{.....}} = \text{........}\ \frac{\text{........}}{\text{........}} = \text{........}$

---

4. Convert each of the following into a fractional form:

a) $0.7 = \frac{\text{........}}{\text{........}}$ b) $0.5 = \frac{\text{........}}{\text{........}}$ c) $6.3 = \frac{\text{........}}{\text{........}}$

d) $8.3 = \frac{\text{........}}{\text{........}}$ e) $64.3 = \frac{\text{........}}{\text{........}}$ f) $512.4 = \frac{\text{........}}{\text{........}}$

g) 125.71 h) 📖 17.23 i) 📖 6.09 j) 📖 5.017

k) 16.125 l) 18.18 m) 10.12 n) 8.217

o) 📖 28.001 p) 213.002 q) 100.007 r) 5.027

---

5. Write in digits each of the following numbers:

a) Four tenths. b) Eight and one tenth.

c) Twenty five and three tenths. d) One hundred sixteen and six tenths.

e) Five and seven tenths. f) Fourteen and two tenths.

g) Thirty seven and fifty hundredths ....

h) Five hundred and twenty four hundredths ....

i) Six and fifty seven thousandths ....

j) Twenty nine thousandths ....

k) Four hundred thirty two and seven hundredths ....

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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6. Write in words each of the following numbers:

a) 0.7 **b)** 14.2 **c)** 350.9 **d)** 2083.1 **e)** 3.58

f) 0.35 **g)** 0.568 **h)** 1.001 **i)** 64.075

7. Complete the following table as the example:

Number	Hundreds	Tens	Units	Point	Tenths	Hundredths	Thousandths
Example: 671.235	6	7	1	.	2	3	5
a) 723.056	....	....	....	.	....	....	....
b) 121.721	....	....	....	.	....	....	....
c) 56.345	....	....	....	.	....	....	....
d) 187.65	....	....	....	.	....	....	....
e)	6	7	1	.	6	3	4
f)	0	0	2	.	3	2	7
g)	7	1	0	.	6	7	0

8. Complete as the example:

Example: 5.275 = 5 + 0.2 + 0.07 + 0.005

a) 6.8 = ... + ... , 7.2 = 0.2 + ...

b) 3.4 = 3 + ... , ... = 6 + 0.3

c) ...... = 5 + 0.1 , ... = 0.2 + 3

d) 12.097 = ... + ... + ...

e) .... = 70 + 5 + 0.2 + 0.07 + 0.006

f) .... = 900 + 50 + 2 + 0.3 + 0.05

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9. Underline the tens digit, and circle the tenths digit in each of the following numbers as the example:

Example: 524.7 , 27.9 , 456.2

a) 2132.7 , 327.2 , 1020.8
b) 18.73 , 30.95 , 71.5
c) 467.8 , 5432.1 , 100.1 , 2060.9

10. Underline the hundreds digit and circle the hundredths digit as the example:

Example: 982.327

a) 129.785
b) 195.273
c) 175.198
d) 695.786
e) 318.08

11. Underline the units digit and circle the hundredths digit as the example:

Example: 72.536

a) 74.138
b) 675.261
c) 7.203
d) 175.62
e) 18.07

12. Find the value of the digit (4) in each of the following numbers as the example:

Example: 4.503 (4)

a) 42.37 (..........)
b) 11.46 (..........)
c) 27.034 (..........)
d) 0.104 (..........)
e) 17.046 (..........)

13. Find the place value of the digit (3) in each of the following numbers as the example:

Example: 23.521 (Units)

a) 701.235 (..........)
b) 34.920 (..........)
c) 90.003 (..........)
d) 325.784 (..........)
e) 2.3 (..........)

14. Complete each of the following as the example:

Example: 0.5 = 0.50 = 0.500 , 0.800 = 0.80 = 0.8

a) 0.2 = ... = ... , 0.900 = ... = ...
b) 0.7 = ... = ... , 0.300 = ... = ...
c) 0.6 = ... = ... , 0.100 = ... = ...

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15. Complete each of the following as the example:

Example:
65.347
65 + 0.347
65 + 0.3 + 0.04 + 0.007

a)
75.986
.... + ...
.... + ... + ... + ...

b)
195.678
.... + ...
.... + ... + ... + ...

c)
....
217 + 0.175
.... + ... + ... + ...

d)
....
.... + ...
127 + 0.7 + 0.05 + 0.008

e)
....
.... + ...
197 + 0.5 + 0.009

16. Complete each of the following as the example:

Example: 5.126 = 6 thousandths + 2 hundredths + 1 tenth + 5 units

a) 27.39 = ... hundredths + ... tenths + ... units + ... tens

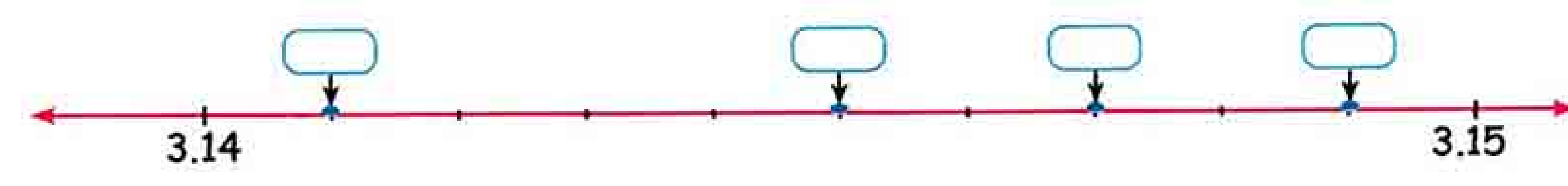
b) 804.567 = ... thousandths + ... hundredths + ... tenths + ... units + ... hundreds

c) 1003.058 = ... thousandths + ... hundredths + ... units + ... thousands

d) .... = 4 tenths + 1 hundredth + 9 thousandths + 8 tens + 2 hundreds

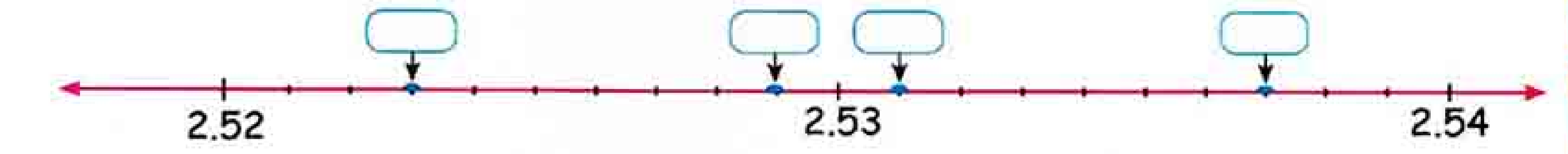
17. Write the following numbers in their suitable places on the number line:

a) 3.145 , 3.149 , 3.141 and 3.147

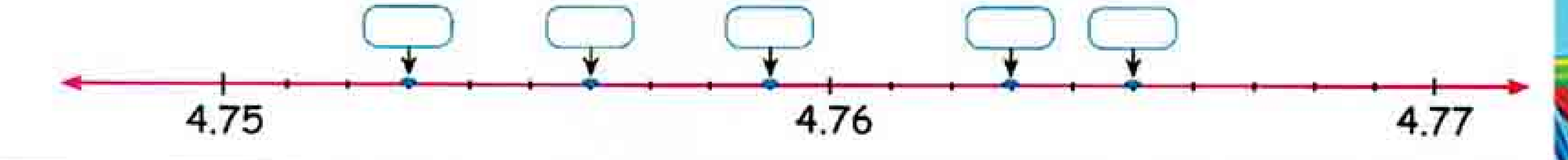


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b) 2.523 , 2.537 , 2.529 and 2.531

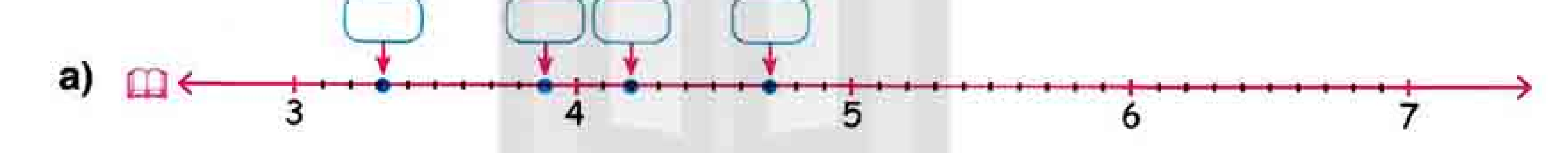


c) 4.763 , 4.756 , 4.753 , 4.759 and 4.765

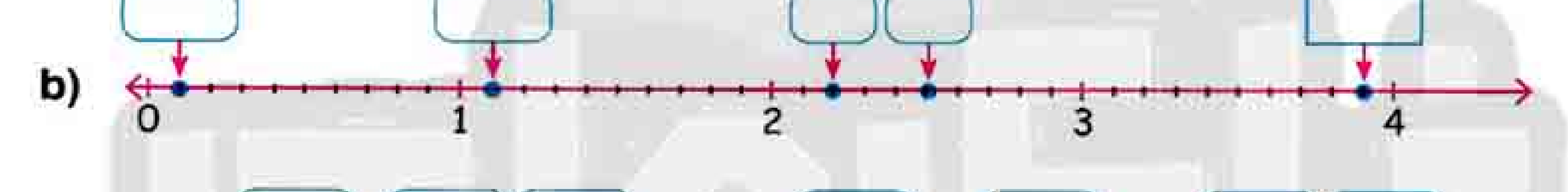


18. **Complete with a suitable decimal:**

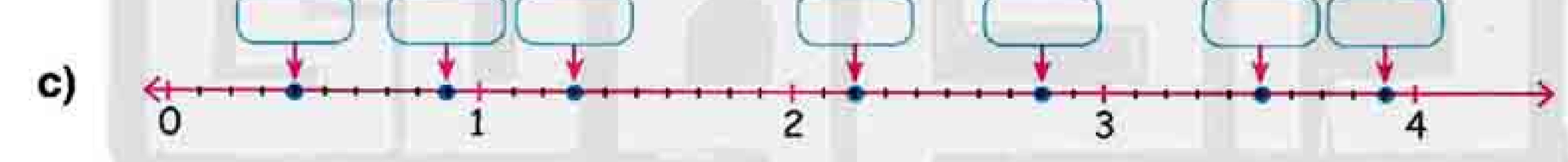
a)



b)



c)



19. **Represent the following numbers in their suitable places on the number line:**

a) 2.1 , 0.3 , 0.7 , 2.6 and 1.4



b) 2.3 , 1.5 , 1.7 , 2.1 , 3.8 and 0.8

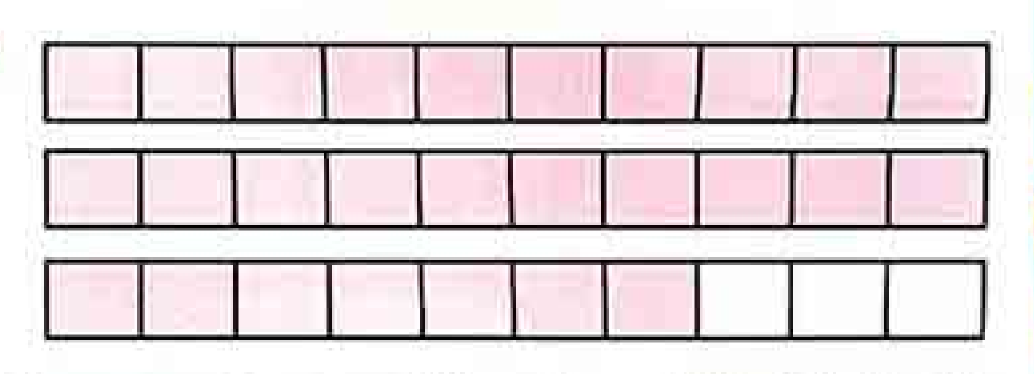


c) 0.9 , 2.3 , 3.2 , 1.8 , 3.6 and 2.7



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

20. From the opposite figure. Choose the number that represents the coloured part:



a) 3.7 b) 2.3
c) 2.7 d) 3.3

Critical thinking

21. Match the fractions to their equivalent decimals.

- Use a ruler to draw a line that matches the fraction with the letter of its decimal form. The number tells you where to write your letter in the code boxes to find the secret word.

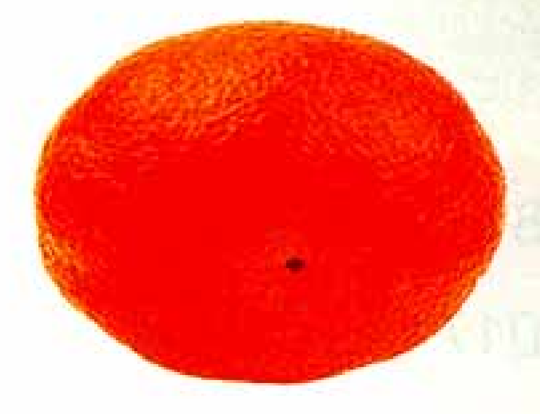
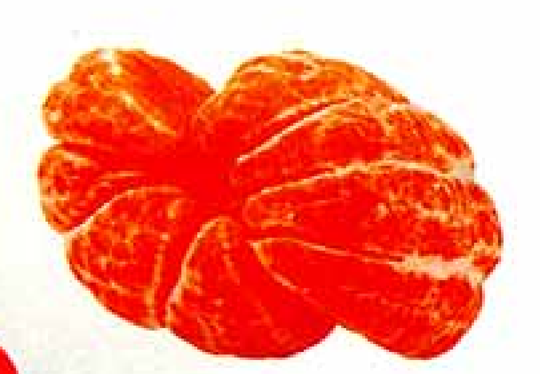
	Fraction	Decimal	Letter
1	$\frac{9}{10}$	0.19	M
2	$\frac{1}{2}$	0.15	I
3	$\frac{2}{5}$	0.06	H
4	$\frac{3}{50}$	0.5	A
5	$\frac{3}{10}$	0.125	T
6	$\frac{19}{100}$	0.4	T
7	$\frac{17}{1000}$	0.9	M
8	$\frac{1}{8}$	0.3	E
9	$\frac{3}{20}$	0.017	A
10	$\frac{3}{4}$	0.7	S
11	$\frac{7}{10}$	0.75	C

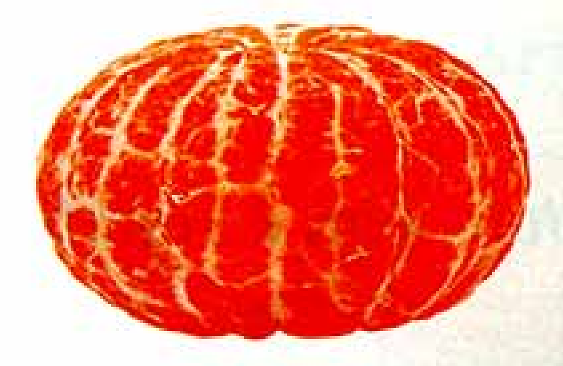
M										
1	2	3	4	5	6	7	8	9	10	11

ruler	مسطرة	code	شفرة	secret word	كلمة السر

ذاكرولي
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Rania Sayed







COMPARING TWO DECIMAL NUMBERS AND ORDERING A SET OF DECIMAL NUMBERS



Aims

At the end of this lesson, the pupil should be able to:

(1) gain the skill of comparing between any two decimal numbers.

(2) gain the skill of ordering a set of decimal numbers.



WARM UP



- Mai, Sameera and Ahmed are three friends.

  Mai said, "My height is 1.3 metres".

  Sameera said, "My height is 1.1 metres".

  Ahmed said, "My height is 0.9 metre".

- The doctor asked all of them to stand in ascending order.

Let us know ***how they can do that.***

- Therefore we need to study how we can arrange the decimal numbers ascendingly and descendingly, you will know that: 0.9 < 1.1 < 1.3



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Lesson 3: Comparing two decimal numbers and ordering a set of decimal numbers



First Any mixed number is included between two whole numbers:

(In the following examples, the difference between the two whole numbers is as small as possible (i.e: the whole one)

For example:

a) 15.73 is included between 15 and 16

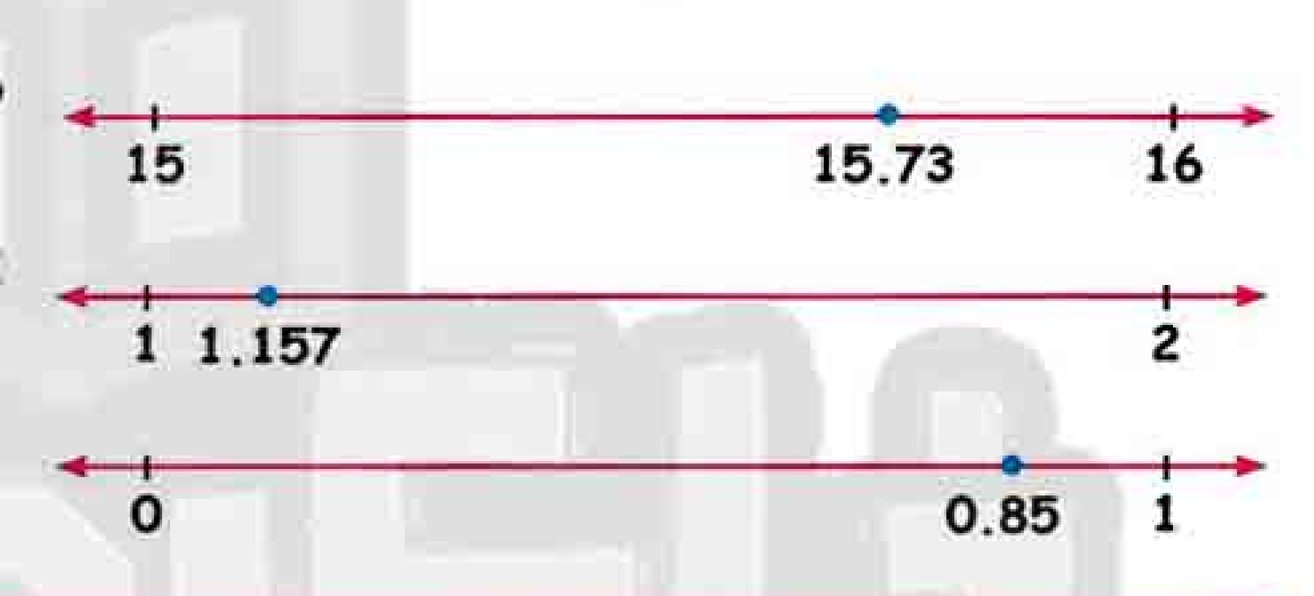
15 < 15.73 < 16

b) 1.157 is included between 1 and 2

1 < 1.157 < 2

c) 0.85 is included between 0 and 1

0 < 0.85 < 1



Second There is an infinite number of decimals between any two whole numbers:

For example:

Between 25 and 26, there are an infinite number of decimal numbers such as: 25.5 , 25.7 , 25.75 , 25.194 , 25.795 , ... etc.

Third Comparing between two decimal numbers:

To compare between two decimal numbers, do the following steps:

Step (1): Compare between the two whole numbers.

Step (2): If the two whole numbers are equal, then compare the digits in the decimal part from left to right.

For example:

To compare between 75.327 and 75.354

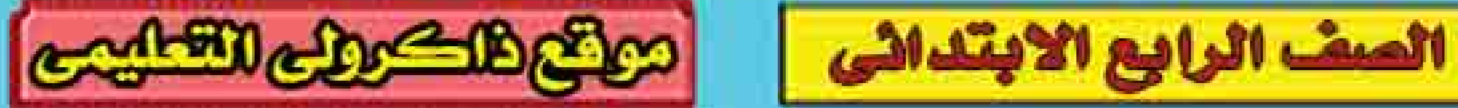
7	5	.	3	2	7
7	5	.	3	5	4

- 1st: The two whole numbers (75) are equal so, move to the tenth digits.
- 2nd: The tenth digits (0.3) are equal so, move to the hundredth digits.
- 3rd: Because 0.02 < 0.05 therefore **75.327 < 75.354**

▶ included محصور (يقع بين)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





Note that

- If you write zeroes to the right of a decimal, then it doesn't change its value.

For example: To compare between 53.2 and 53.02

because: 53.2 = 53.20 (put 0 to the right of 53.2)

Then $53.20 > 53.02$ So, $53.2 > 53.02$

Example 1

- Put the suitable sign ($<$, $=$ or $>$) :

a) 6.1 ……… 5.3 b) 273.05 ……… 273.050

c) 29.18 ……… 29.17 d) 86.68 ……… 112.1

e) 35.9 ……… 35.98 f) 50.8 ……… 436.9

Solution

a) $>$ b) $=$ c) $>$ d) $<$ e) $<$ f) $<$

Fourth Ordering a set of decimal numbers:

To arrange the numbers 2.162 , 2.175 , 2.17 and 7.041 ascendingly or descendingly, we do the following steps:

1st Line up the digits

2nd Compare the whole numbers 2, 2, 2, 7, then 7 is the greatest.

So, 7.041 is the greatest decimal number.

2 . 1 6 2
2 . 1 7 5
2 . 1 7 0 ← 2.17
7 . 0 4 1

3rd Compare the other three numbers using the tenth and unit digits … . They are equal.

4th Compare the hundredth digits …… each of 2.175 and 2.170 is greater than 2.162.

5th Compare the thousandth digits …… 2.175 is greater than 2.170.

Then : $7.041 > 2.175 > 2.170 > 2.162$

The descending order is : 7.041 , 2.175 , 2.17 and 2.162

The ascending order is : 2.162 , 2.17 , 2.175 and 7.041

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Example 2

- Arrange in descending order: 5.7 , 5.8 , 5.08 and 5.75

▶ Solution

The greatest number is 5.80

The smallest number is 5.08

5.75 is greater than 5.70

Then 5.80 > 5.75 > 5.70 > 5.08

The descending order is: 5.8 , 5.75 , 5.7 and 5.08

5.70 ← 5.7
5.80 ← 5.8
5.08
5.75

Try to solve

Arrange the following numbers in ascending order:

6.21 , 15.317 , 2.07 , and 15.39

Example 3

- Arrange in ascending order: $2\frac{1}{2}$, $3\frac{1}{8}$, 2.37 and 3.73

▶ Solution

$2\frac{1}{2} = 2.5$ in decimal form

$3\frac{1}{8} = 3.125$ in decimal form

So the given numbers are: 2.5 , 3.125 , 2.37 and 3.73

Then the ascending order is: 2.37 , 2.5 , 3.125 , 3.73 **or** 2.37 , $2\frac{1}{2}$, $3\frac{1}{8}$, 3.73

/aladwaa
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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Solve Ex.



Exercise 4

Comparing two decimal numbers and ordering a set of decimal numbers

1. Complete with two suitable whole numbers, as the example:

Example: 12 < 12.15 < 13

a) .... < 0.45 < ....

b) .... < 49.75 < ....

c) .... < 7.56 < ....

d) .... < 9.54 < ....

e) .... < 1.75 < ....

f) .... < 0.1 < ....

g) .... < 5.6 < ....

2. Write three decimal numbers between:

a) 0.1 and 0.2

b) 17 and 18

c) 57.1 and 57.2

d) 49.04 and 49.05

e) 56.01 and 56

f) 0.08 and 0.09

3. Which is greater?

a) 16.3 or 6.63

b) 5.07 or 6

c) 3.24 or 3.42

d) 29.15 or 29.5

4. Which is smaller?

a) 3.5 or 3.05

b) 14.7 or 9.47

c) 27 or 23.9

d) 0.76 or 0.9

5. Put the suitable sign (< , = or >):

a) 53.7 .... 49.6

b) 1.400 .... 1.4

c) 0.98 .... 0.901

d) 8.08 .... 8.1

e) 28.4 .... 2.84

f) 3.14 .... 3.2

g) 5.6 .... 5.60

h) 0.92 .... 1.02

i) $7\frac{3}{4}$ 7.75

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

j) 1.75 .... $1\frac{3}{4}$

k) $1\frac{3}{4}$ 1.50

l) 2.25 .... 3.250

m) 8 + 0.2 + 0.03 .... 8.32

n) 45 tenths .... 450 hundredths

o) $8\frac{1}{8}$ .... 8 + 0.1 + 0.02 + 0.004

p) 30 tenths .... 3 tens

q) $2\frac{1}{2}$ + 3.5 .... 64 tenths

6. **Which of the opposite numbers lies .....?**

34.2	34.07
17.03	
17.019	34
17.7	

a) between 17 and 18? ....

b) between 34 and 34.5? ....

c) between 33 and 35? ....

d) between 17 and 17.5? ....

e) between 17 and 17.1? ....

f) between 34 and 34.1? ....

7. **Using the following numbers, complete:**

(1.3 , 3.2 , 10.04 , 3.12 , 3.215 and 1.12)

a) The numbers greater than 3 are .... , ... , ... , ...

b) The numbers smaller than 3 are .... , ...

c) The numbers between 1 and 3 are .... , ...

d) The numbers between 2 and 4 are .... , ... , ...

e) The numbers between 3.15 and 3.25 are .... , ...

f) The smallest number is .... and the greatest number is ....

g) The ascending order of numbers is: .... , ... , ... , ... , ... and ....

8. **Arrange the following numbers:**

a) 5.8 , 5.08 , 58 and 8.5 *(Ascendingly)*

b) 34.12 , 34.2 , 34.102 and 31.24 *(Ascendingly)*

c) 157 , 152.3 , 152.13 and 157.1 *(Ascendingly)*

d) 7.09 , 9.7 , 9.15 , 7.19 and 97 *(Descendingly)*

e) 56.38 , 56.29 , 56.382 , 56.291 and 56.293 *(Descendingly)*

f) 17.1 , 7.3 , 107.9 , 0.079 and 1.079 *(Descendingly)*

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

9. Arrange the following numbers:

a) 5.55 , $5\frac{1}{2}$, 55.5 and 0.55 *(Ascendingly)*

b) $\frac{1}{4}$, 0.3 , $\frac{7}{25}$ and 0.09 *(Descendingly)*

c) $10\frac{3}{5}$, $10\frac{1}{2}$, 10.56 and $10\frac{13}{20}$ *(Descendingly)*

d) $\frac{5}{6}$, $\frac{2}{3}$, 1.2 , 0.75 and $\frac{11}{12}$ *(Ascendingly)*

---

10. Underline the equal numbers in each of the following groups:

a) 18.04 , 18.40 , 18.040 , 18.44 , 1.840

b) 0.10 , 10.1 , 0.01 , 0.001 , 0.1

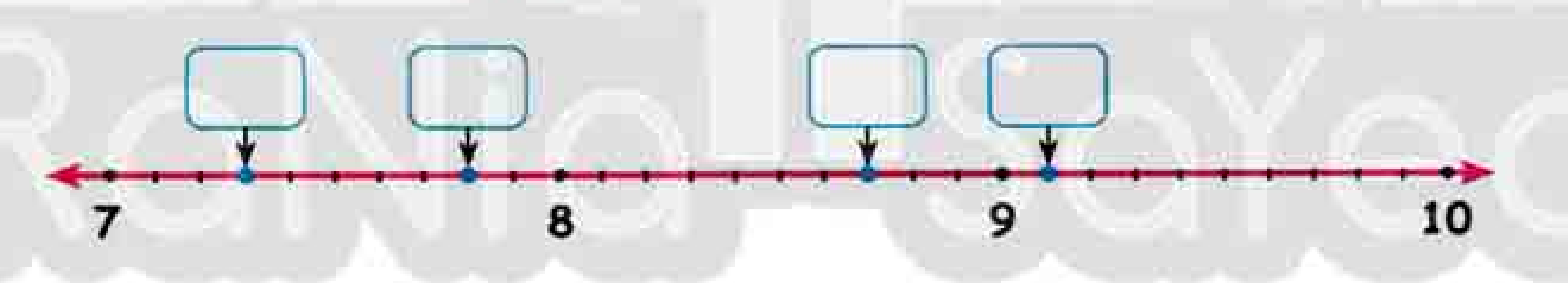
c) 5.73 , 5.703 , 5.730 , 5.072 , 5.073 , 50.73

d) 9.07 , 9.7 , 9.700 , 9.007 , 90.07

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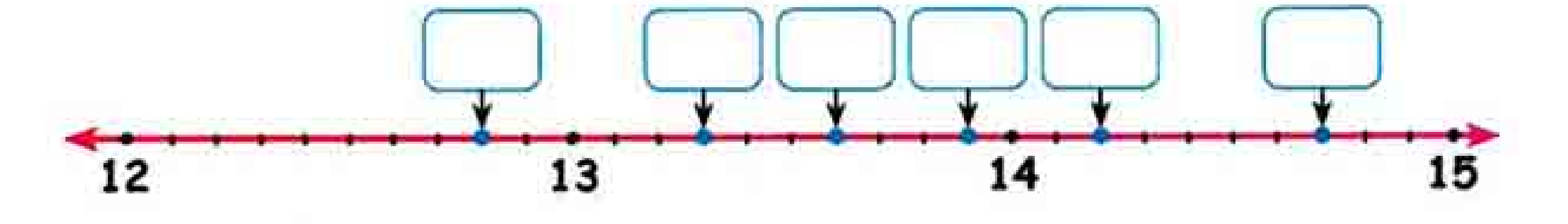
11. Write the following decimal numbers in their suitable places on the number line and then arrange them:

a) 7.8 , 7.3 , 9.1 and 8.7



So, ... < .... < .... < .... *(Ascendingly)*

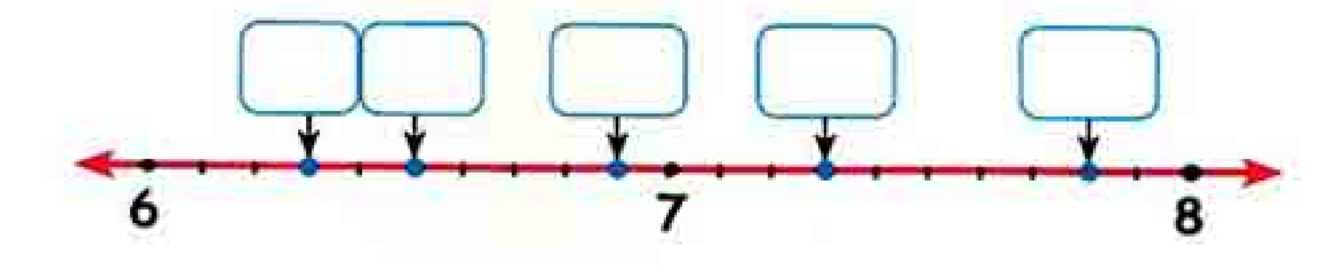
b) 13.6 , 13.3 , 14.2 , 14.7 , 12.8 and 13.9



So, ... > .... > .... > .... > .... > .... > *(Descendingly)*

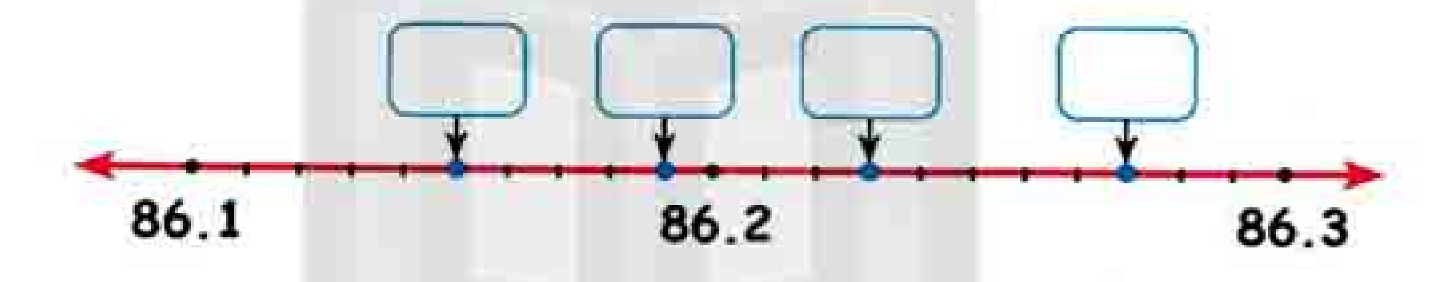
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

c) 6.5 , 7.3 , 7.8 , 6.3 and 6.9



The order is: .... , ... , ... , ... , ... *(Ascendingly)*

12. Write the suitable numbers inside the rectangles, then arrange them descendingly:



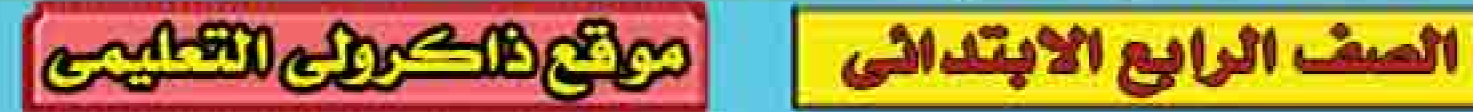
The order is: .... , ... , ... , ... *(descendingly)*

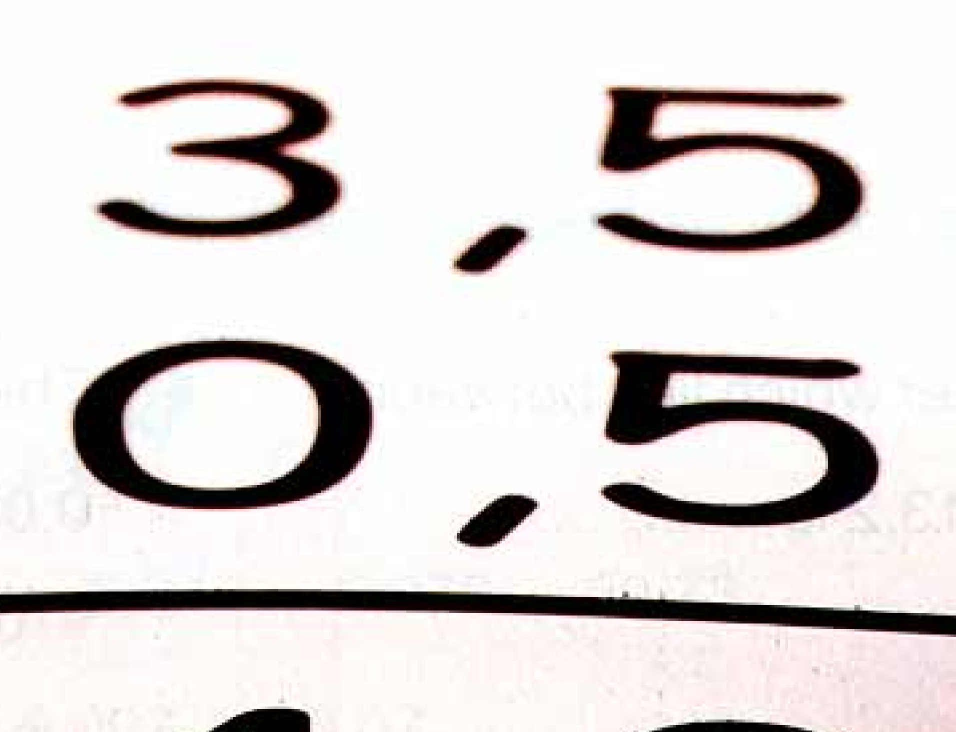
13. Choose the correct answer in each of the following:

a) The number which lies between 13.1 and 13.2 is ....
- 13.3
- 13.01
- 13.15
- 13.23

b) The number which lies between 0.08 and 0.1 is ....
- 0.07
- 0.09
- 0.2
- 0.18





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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4 Lesson OPERATIONS ON DECIMAL NUMBERS



Aims

At the end of this lesson, the pupil should be able to:

(1) add and subtract decimal numbers.

(2) divide a whole number by 10.100 and 1000.



WARM UP

- Farid has 2 pounds and a half.
- His mother gave him 3 pounds and a quarter and asked him to find the total sum of what he has.



- Then Farid writes that in decimals as:

$$2.5 + 3.25$$

Can you help him to carry out this addition operation?

- Let us learn how we add the decimal numbers.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



4 LESSON

Operations on decimal numbers



First Adding and subtracting decimal numbers:

1 Adding the decimal numbers:

a) Vertical method: To add 18.7 + 5.46

- Line up the decimal points
- Put zeroes to the right of decimals (if needed) to make the number of decimal digits equal in all the numbers.
- Add from right to left. (Rename if necessary.)

```
  (1)(1)
   1 8 . 7 0
+  0 5 . 4 6
-----------
   2 4 . 1 6
```

b) Horizontal method: So 18.70 + 05.46 = 24.16

Example 1

- Add: a) 2.374 + 62.29 b) 323.9 + 7.165
  c) 23.75 + 235.82 d) 325.91 + 1172.823

Solution

a)
```
     (1)
   0 2 . 3 7 4
+  6 2 . 2 9 0
--------------
   6 4 . 6 6 4
```

b)
```
    (1)(1)
   3 2 3 . 9 0 0
+  0 0 7 . 1 6 5
----------------
   3 3 1 . 0 6 5
```

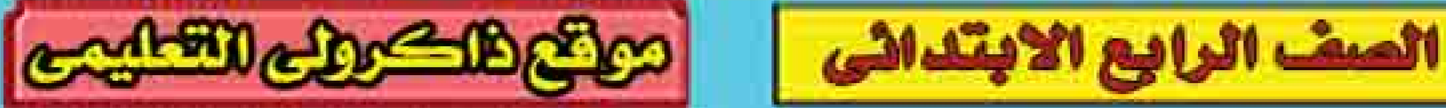
c)
```
       (1)
   0 2 3 . 7 5
+  2 3 5 . 8 2
--------------
   2 5 9 . 5 7
```

d)
```
          (1)
   0 3 2 5 . 9 1 0
+  1 1 7 2 . 8 2 3
------------------
   1 4 9 8 . 7 3 3
```

operations	عمليات	horizontal	أفقى	vertical	رأسى



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



2 Subtracting decimal numbers:

a) Vertical method:

To subtract 0.214 from 2.32

- Line up the decimal points
- Put zeroes to the right of decimals (if needed) to make the number of decimal digits equal in all the numbers.
- Subtract from right to left. (Rename if necessary.)

$$\begin{array}{r} \overset{1\,10}{2.3\,\cancel{2}\,\cancel{0}} \\ -\,0.214 \\ \hline 2.106 \end{array}$$

b) Horizontal method:

So $2.3\overset{1}{\cancel{2}}\overset{10}{\cancel{0}} - 0.214 = 2.106$

Example 2

- Subtract:

a) 43.753 - 25.678

b) 123.45 - 69.671

▶ Solution

a)

$$\begin{array}{r} \overset{3\;13}{\cancel{4}\,\cancel{3}}\,.\,\overset{6\;4\;13}{\cancel{7}\,\cancel{5}\,3} \\ -\,25.678 \\ \hline 18.075 \end{array}$$

b)

$$\begin{array}{r} \overset{0\;1\;2}{\cancel{1}\,\cancel{2}\,\cancel{3}}\,.\,\overset{3\;4\;10}{\cancel{4}\,\cancel{5}\,\cancel{0}} \\ -\,69.671 \\ \hline 53.779 \end{array}$$







Example 3

- **a)** What is the increase of 125.62 than 119.75?
  b) Which of the following numbers is bigger?
  326.725 or 362.275
  Find: their sum and the difference between them.

Solution

a) 125.62 > 119.75

```
   1 2 5 . 6 2
 - 1 1 9 . 7 5
 -------------
   0 0 5 . 8 7
```

b) 362.275 > 326.725

The sum is:

```
   3 6 2 . 2 7 5
 + 3 2 6 . 7 2 5
 ---------------
   6 8 9 . 0 0 0
```

The difference is:

```
   3 6 2 . 2 7 5
 - 3 2 6 . 7 2 5
 ---------------
   0 3 5 . 5 5 0
```

Example 4

- **Write the missing digits:**

a)

```
   1 8 . □ 5
 +   □ . 2 □
 -----------
   □ 2 . 9 5
```

b)

```
   6 8 . 0 0 5
 - 2 4 . □ □ □
 -------------
   □ □ . 7 5 5
```

Solution

a)

```
   1 8 . 7 5
 +   4 . 2 0
 -----------
   2 2 . 9 5
```

b)

```
   6 8 . 0 0 5
 - 2 4 . 2 5 0
 -------------
   4 3 . 7 5 5
```


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Second Dividing the whole numbers by 10, 100 and 1000:

1. To divide a whole number by 10, put a decimal point after one digit from the right.

   653 ÷ 10 = 65.3

2. To divide a whole number by 100, put a decimal point after two digits from the right.

   653 ÷ 100 = 6.53

3. To divide a whole number by 1000, put a decimal point after three digits from the right.

   653 ÷ 1000 = 0.653

Note that

- When you divide a whole number by 10, 100 or 1000,.....etc if the number of its digits is less than the number of zeroes of the divisor, then put zero or more to the left of the dividend.

For example:

35 ÷ 1000 = 0.035

7 ÷ 1000 = 0.007

Example 5

- **Find:**

a) 735 ÷ 100 **b)** 9875 ÷ 100 **c)** 876 ÷ 10

d) 3897 ÷ 1000 **e)** 75 ÷ 1000 **f)** 8 ÷ 1000

Solution

a) 7.35 **b)** 98.75 **c)** 87.6

d) 3.897 **e)** 0.075 **f)** 0.008

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى






Solve Ex.

Exercise 5

Operations on decimal numbers

1. Find the result:

a) $0.175 + 0.623 = \ldots$

b) $2.573 + 7.320 = \ldots$

c) $9.798 - 4.543 = \ldots$

d) $74.28 + 25.72 = \ldots$

e) $52.273 - 41.514 = \ldots$

f) $985.287 + 213.243 = \ldots$

g) $372.532 - 130.758 = \ldots$

h) $289.007 + 14.43 = \ldots$

i) $666.66 - 549.958 = \ldots$

j) $3218.975 + 218.853 = \ldots$

k) $379.008 + 23.75 = \ldots$

l) $798.007 - 193.872 = \ldots$

2. Find the result:

a) 17.3 + 4.6 = ...

b) 13.8 + 5.75 = ...

c) 0.875 + 0.43 = ...

d) 13 + 2.65 = ...

e) 5.7 - 1.4 = ...

f) 89.75 - 5.34 = ...

g) 13 - 2.65 = ...

h) 0.6 - 0.275 = ...

i) 312.5 - 157.125 = ...

j) 68.005 - 24.25 = ...

k) $2\frac{1}{8} + 6.5 = \ldots$

l) $27.1 - 13\frac{3}{5} = \ldots$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

3. Find the result:

a) 67 ÷ 10 = ...

b) 892 ÷ 10 = ...

c) 408 ÷ 10 = ...

d) 178 ÷ 100 = ...

e) 345 ÷ 1000 = ...

f) 987 ÷ 100 = ...

g) 67 ÷ 100 = ...

h) 900 ÷ 1000 = ...

i) 978 ÷ 1000 = ...

j) 1895 ÷ 1000 = ...

k) 7 ÷ 10 = ...

l) 7 ÷ 100 = ...

m) 7 ÷ 1000 = ...

n) 782 ÷ 10 = ...

o) 250 ÷ 10 = ...

p) 2857 ÷ 100 = ...

q) 7280 ÷ 100 = ...

r) 99875 ÷ 1000 = ...

s) 8376 ÷ 1000 = ...

4. Choose the correct answer:

a) 8574 ÷ 100 = ... (857.4 , 85.74 , 8.574 or 857400)

b) 14 – 1.4 = ... (1.2 , 12.6 , 0.126 or 1.26)

c) 247 ÷ 100 = ... (0.0247 , 2.47 , 24.7 or 0.247)

d) 54.238 + 5.8 = ... (54.296 , 59.246 , 60.038 or 60.38)

e) 42819 ÷ 1000 = ... (42.829 , 42.819 , 42.89 or 0.428)

f) 4570 gm = ... kg. (4.5 , 4.57 , 45.7 or 0.457)

g) 325 piasters = ... pounds. (325 , 5.32 , 3.25 or 32.5)

h) 4.7 + 3.07 = ... (714 , 8.4 or 7.77)

i) 9870 ÷ 100 = ... (98.7 , 9.87 or 987)

j) 137.234 – 37.04 = ... (133.530 , 100.194 or 100.23)

k) 540 piasters = ... pounds. (5.4 , 54 or 0.54)

l) 256.104 = 256 + 0.1 + ... (0.04 , 0.4 or 0.004)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

5. Put the suitable sign (< , = or >):

a) 7.9 + 2.3 .... 11.7 – 1.3

b) 58.003 – 57.03 .... 1 + 0.973

c) 99.89 – 90.09 .... 10 – 1.01

d) 520.46 + 0.37 .... 520 + 1.19

e) 4.722 .... 8 – 3.22

f) 6.18 + 3.82 .... 87.56 - 77.5

g) 175 ÷ 100 .... 175 ÷ 100

h) 1.75 .... $1\frac{3}{4}$

i) 785 ÷ 10 .... 8000 ÷ 100

6. Find the result:

a) 73.24 + 32.02 + 12.17 = ...

b) 28.65 + 17.3 + 2.05 = ...

c) 52.17 + 47.005 + 37.3 = ...

d) 7 + 5.12 + 8.592 = ...

e) 53.245 + 1.97 + 213.8 = ...

f) 12.7 + 10.007 + 3.07 = ...

g) 9.28 + 8.48 – $3\frac{27}{100}$ = ...

h) 512 + 88.35 - 67.035 = ...

i) (24.235 + 0.065) - (17 + 1.3) = ...

j) (23456 ÷ 10) + (23456 ÷ 100) = ...

7. Complete each of the following:

a) .... + 27.35 = 75.87

b) 43.65 + ... = 108.89

c) 67.97 + ... = 128.75

d) .... + 47.85 = 100

e) 97.35 – .... = 63.89

f) 33.3 – .... = 12.008

g) .... – 41.41 = 3.8

h) .... – 12.37 = 17.83

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

8. Write the missing digits:

a)
```
    9 7 . 4 8
+   4 3 . □ □
-------------
  □ □ □ . 9 3
```

b)
```
    8 3 . 5 7 0
-   □ □ . 7 3 4
---------------
    2 4 . □ □ □
```

c)
```
  1 8 3 . 7 5
+ □ 9 8 . □ □
-------------
  3 □ □ . 8 8
```

d)
```
  9 8 1 . 3 2 3
- 1 7 2 . □ □ 7
---------------
  8 □ □ . 9 6 □
```

e)
```
  1 1 3 . 5 7 □
-   1 3 . □ □ 8
---------------
  □ □ □ . 1 7 □
```

f)
```
  2 9 9 . □ □ □
-   □ □ . 4 5 7
---------------
  2 4 3 . □ 3 □
```

9. Choose the correct answer in each of the following:

a) (36.75 + 752.25) ÷ 100 = ...
- 8.79
- 0.789
- 7.89
- 789

b) (8795.379 – 4321.379) ÷ 1000 = ...
- 4574
- 4.474
- 4.474
- 8795

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Life Problems



10. Hossam has P.T. 425 and his sister Hend has P.T. 980. **Find the difference between what they have in L.E.**



11. Nahla bought a washing machine for L.E. 3950.75 and a TV set for L.E. 3200.25. If she had L.E. 8 000, **how much money left with her?**




P.T. 840 L.E. 9.75

12. Mazen has 35 pounds. He bought a ball for L.E. 9.75 and a book for P.T. 840. **How much money was left with him?**





L.E. 70.25 L.E. 45.75 L.E. 99.8

13. Hanaa has 200 pounds. She wants to buy a pair of shoes for L.E. 99.8, a bag for L.E. 45.75 and a dress for L.E. 70.25. Can she buy all what she wants? **Why?**

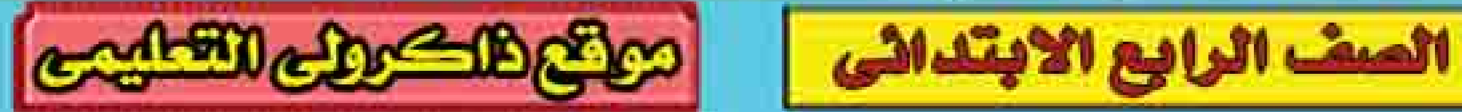


14. A man bought three meters of cloth to make two shirts, one for him and another for his son. If you know that one meter and three quarters of a meter of cloth are needed for the man's shirt and one meter and half a meter for the son's shirt, **answer the following questions:**

a) Is what the man bought enough to make the two shirts or will he need another piece of cloth?

b) If he needs another piece of cloth, how much cloth will he need to buy?

enough to	تكفى لـ



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5 Lesson

APPROXIMATING TO THE NEAREST TEN, HUNDRED, THOUSAND, TEN THOUSAND, AND HUNDRED THOUSAND



Aims

At the end of this lesson, the pupil should be able to:

(1) recognize the meaning of approximating the number to the nearest ten, hundred, thousand, ten thousand, etc.

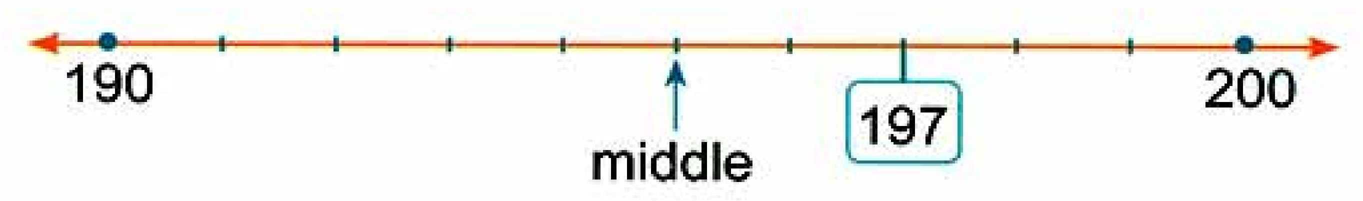
(2) gain the skill of the approximation of any number to ten, hundred, thousand, ten thousand, etc.

WARM UP

Sometimes we do not need to know the number accurately, so it is sufficient for us to get an approximated number as in this situation:



- Ahmed spent his holiday at his village after his returning, Ahmed's friend asked him about the distance between Cairo and his village, in fact it is 197 km, but Ahmed told him that it is aproximately 200 km.



- In fact, Ahmed is not a liar, but he did a good approximation to the nearest hundred.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Approximating to the nearest ten, hundred, thousand, ten thousand and hundred thousand



First Approximating to the nearest ten:

In our daily life we sometimes use the approximation.

For example: If the distance between two cities is 197 km, and because on the number line 197 is closer to 200 than 190



Then we say, 197 km approximately equals 200 km to the nearest ten, we write that as:

$197 \simeq 200$ to the nearest ten

The symbol "$\simeq$" means approximately equal

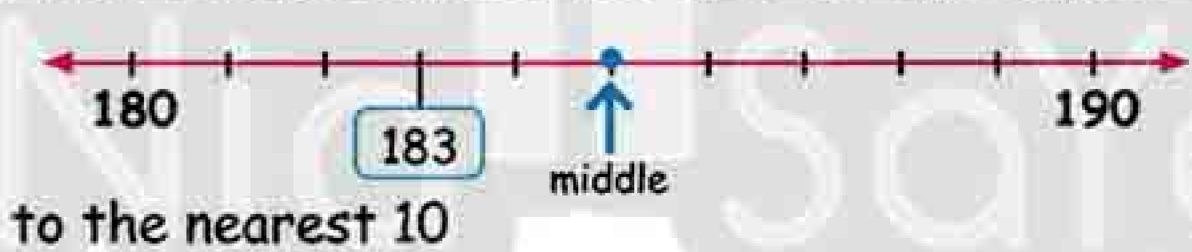
For example:

1. **To approximate 36 to the nearest 10, look at the number line:**



$36 \simeq 40$ to the nearest ten.

2. **To approximate 183 to the nearest 10, look at the number line:**



$183 \simeq 180$ to the nearest 10

Rule

- To approximate to the nearest **ten**, look at the **units** digit:

1. If it is 5 or more, then increase the tens digit by 1, replace the units digit by zero. Keep the other digit as they are and cancel the decimal part if it exists.

   For example: $4125 \simeq 4130$ (To the nearest ten) (+1)

2. If it is less than 5, then replace the units digit by zero, keep the other digit as they are and cancel the decimal part if it exists.

   For example: $7134 \simeq 7130$ (To the nearest ten) (less than 5)

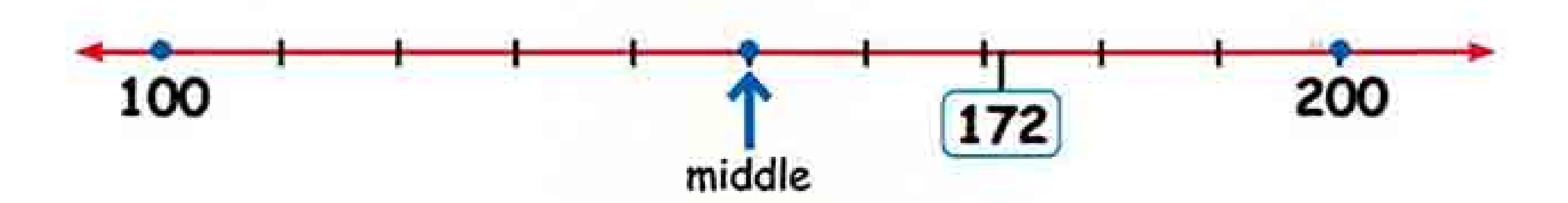
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





Second Approximating to the nearest hundred:

1. To approximate 172 to the nearest hundred, look at the number line.



- 172 is closer to 200 than to 100

So, 172 ≃ 200 (to the nearest hundred)

Note
172 lies between the hundreds (100 and 200)

2. To approximate 625 to the nearest 100, look at the number line



625 is closer to 600 than to 700

So, 625 ≃ 600 (to the nearest 100)

Note that
625 lies between the hundreds (600 and 700)

Rule

- To approximate to the nearest **hundred**, look at the **tens digit**:

1. If it is 5 or more, then increase the hundreds digit by 1, replace the tens digit, and units digit by two zeroes, keep the other digits as they are and cancel the decimal part if it exists.

   For example: 6172 ≃ 6200 (+1) (to the nearest hundred)

2. If it is less than 5, then replace the tens digit and units digit by two zeroes, keep the other digits as they are and cancel the decimal part if it exists.

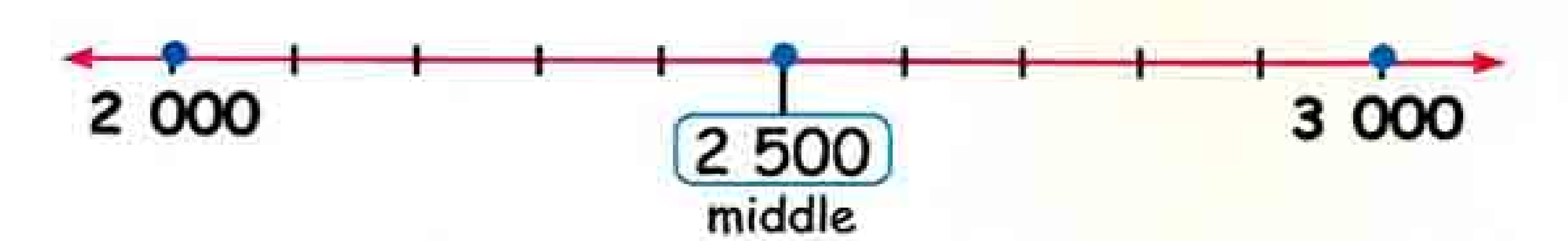
   For example: 8625 ≃ 8600 (less than 5)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

Third — Approximating to the nearest thousand:



1. To approximate 2 500 to the nearest thousand, look at the number line:



2500 is in the middle, then it is approximated up.

So, 2500 ≃ 3000 (to the nearest thousand)

Note
2 500 lies between the thousands (2 000 , 3 000)

2. To approximate 7350 to the nearest 1000, look at the number line:



7 350 is closer to 7 000 than to 8 000

So, 7 350 ≃ 7 000 (to the nearest 1 000)

Note
7 350 lies between the thousands (7 000 , 8 000)

Rule

- To approximate to the nearest **thousand**, look at the **hundreds digit**:

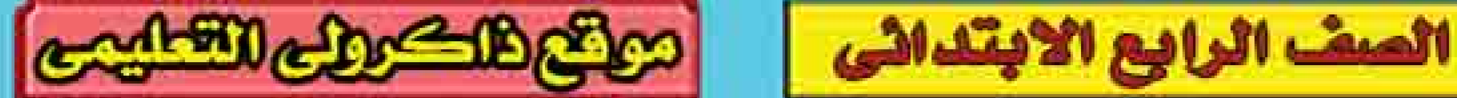
1. If it is 5 or more, then increase the thousands digit by 1, replace the hundreds digit, tens digit and units digit by three zeroes, keep the other digits as they are and cancel the decimal part if it exists.

   For example: 72 564 ≃ 73 000 (+1)

2. If it is less than 5, then replace the hundreds digit, tens digit and units digits by three zeroes, keep the other digits as they are and cancel the decimal part if it exists.

   For example: 47 350 ≃ 47 000 (less than 5)

cancel يحذف



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Example 1

- Approximate each of the following to the nearest ten:

a) 875 b) 7 651 c) 87 028
d) 1 999 e) 5 299 f) 583

Solution

a) 875 ≃ 880 b) 7 651 ≃ 7 650 c) 87 028 ≃ 87 030
d) 1 999 ≃ 2 000 e) 5 299 ≃ 5 300 f) 583 ≃ 580



Try to solve

Approximate each of the following to the nearest ten:

(a) 7552 (b) 8999

Example 2

- Approximate to the nearest hundred:

a) 137.5 b) $3\ 291\frac{3}{5}$
c) 2 999 d) $5\ 387\frac{1}{2}$
e) 15 017 f) 3 876.4

Note that
Fraction and decimal parts are cancelled.

Solution

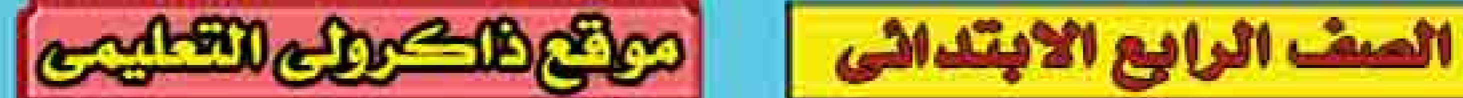
a) 137.5 ≃ 100 b) $3\ 291\frac{3}{5}$ ≃ 3300 c) 2 999 ≃ 3 000
d) $5\ 387\frac{1}{2}$ ≃ 5 400 e) 15 017 ≃ 15000 f) 3 876.4 ≃ 3 900



Try to solve

Approximate each of the following to the nearest hundred:

(a) 43896 (b) 79950



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

Example 3

- Approximate to the nearest 1 000:

a) 2 598.7 b) 29 387

c) 771.207 d) 449

Solution

a) 2 598.7 $\simeq$ 3 000 b) 29 387 $\simeq$ 29 000

c) 771.207 $\simeq$ 1 000 d) 499 $\simeq$ 0

Example 4

- Write the possible whole numbers in each of the following:

a) .... $\simeq$ 150 (to the nearest ten)

b) .... $\simeq$ 910 (to the nearest ten)

Solution

a) 151 , 152 , 153 , 154 , 149 , 148 , 147 , 146 , 145

b) 911 , 912 , 913 , 914 , 909 , 908 , 907 , 906 , 905

Example 5

a) Find the greatest whole number that if approximated to the nearest hundred will be 300.

b) Find the greatest whole number that if approximated to the nearest thousand will be 7 000.

Solution

a) The greatest number is 349

b) The greatest number is 7499





Fourth Approximating to any place:

- Look at the digit to the right of the place you want to approximate to.
- Approximate up if the digit is 5 or more.
- Approximate down if the digit is less than 5.

Example 6

- Approximate each of the following numbers:

a) 164 983 (to the nearest ten thousands)

b) 4 995 007 (to the nearest hundred thousands)

Solution

a) 16(4) 983 ≃ 160 000 (to the nearest 10 000) — ten thousands

b) 4 9(9)5 007 ≃ 5 000 000 (to the nearest 100 000) — hundred thousands

Try to solve

(1) Approximate each of the following to the nearest ten thousand:

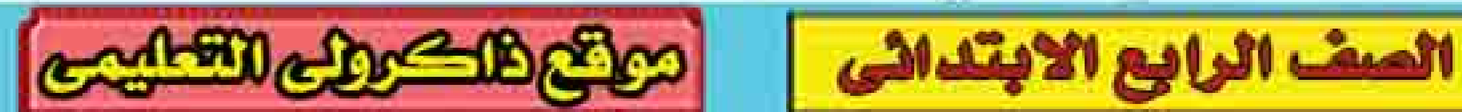
(a) 681754 (b) 496532.3

(2) Approximate each of the following to the nearest hundred thousand:

(a) 62870000 (b) 539988


الدراسات الاجتماعية

أكد معلوماتك من خلال الملخص الذهنى على كل درس



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

UNIT 1

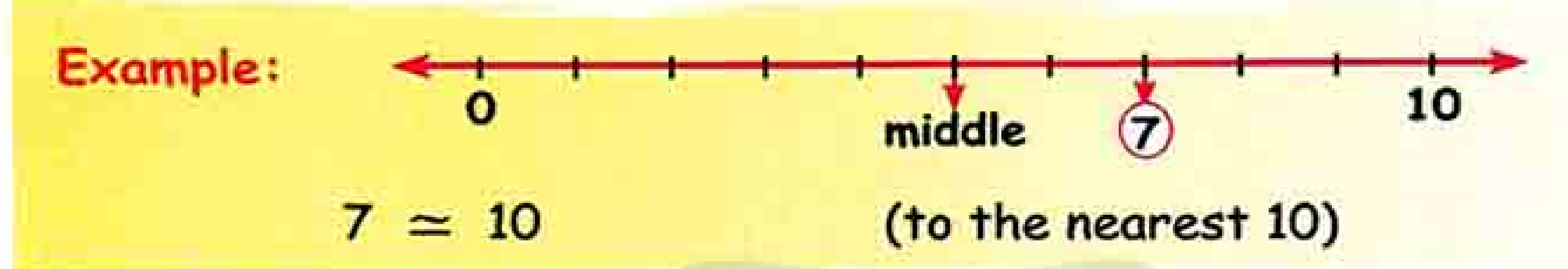

Solve Ex.

Exercise 6

Approximating to the nearest ten, hundred and thousand

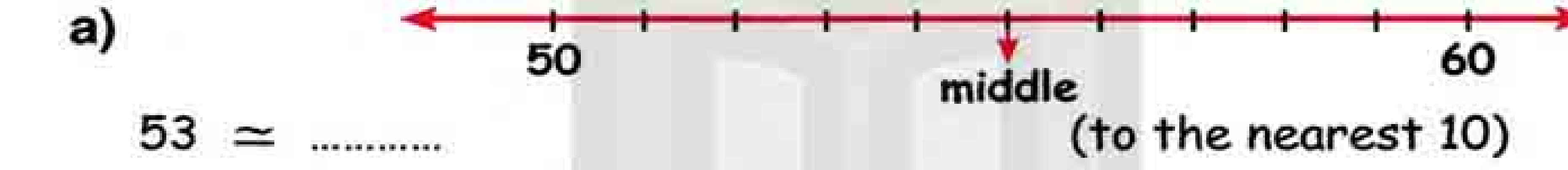
1. Represent each of the following on the number line, then complete as the

Example:



7 ≃ 10 (to the nearest 10)

a)



53 ≃ ………… (to the nearest 10)

b)

0 middle 100

38 ≃ ………… (to the nearest 100)

c)



172 400 ≃ ………… (to the nearest 1 000)

d)



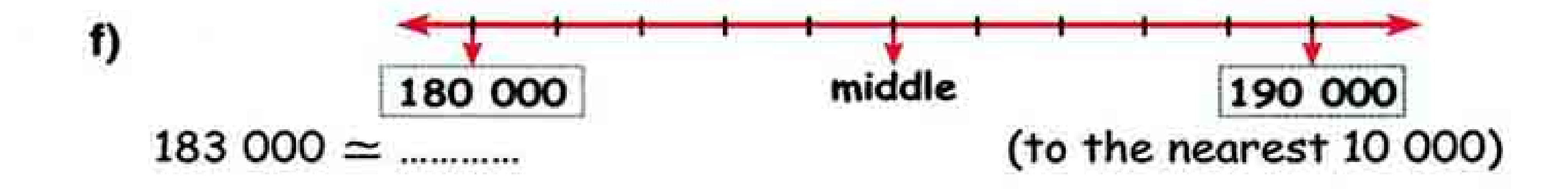
2 183 ≃ ………… (to the nearest 10)

e)



5 370 ≃ ………… (to the nearest 100)

f)



183 000 ≃ ………… (to the nearest 10 000)

g)



295 345 ≃ ………… (to the nearest 100 000)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. Approximate each of the following to the nearest ten as the example:

Example: 123 ≃ 120

a) 514 ≃ .... b) 237 ≃ .... c) 1 199 ≃ ....

d) 13 297 ≃ .... e) 68 019 ≃ .... f) 1 753 ≃ ....

g) 8 004 ≃ .... h) 513.6 ≃ .... i) 9 999 ≃ ....

j) 9 004 ≃ .... k) 21 395 ≃ .... l) $38\frac{3}{5}$ ≃ ....

m) $416\frac{3}{8}$ ≃ ....

3. Approximate each of the following to the nearest hundred as the example:

Example: 290 ≃ 300

a) 268 ≃ .... b) 17 897 ≃ .... c) 31 987 ≃ ....

d) 73 051 ≃ .... e) 27 993 ≃ .... f) 72 357 ≃ ....

g) 89 950 ≃ .... h) 372 051 ≃ .... i) 603 499 ≃ ....

j) 973 049 ≃ .... k) 990 909 ≃ .... l) 1 990 909 ≃ ....

m) 564.8 ≃ .... n) $412\frac{3}{10}$ ≃ .... o) $799\frac{6}{7}$ ≃ ....

4. Approximate each of the following to the nearest thousand:

Example: 290 ≃ 300

a) 216 296 ≃ .... b) 7 435.5 ≃ .... c) 5 321.77 ≃ ....

d) 519 901 ≃ .... e) 57 059.8 ≃ .... f) 999 500 ≃ ....

g) $3\,568\frac{5}{8}$ ≃ .... h) 63 428.99 ≃ .... i) $99\,728\frac{3}{4}$ ≃ ....

j) 519 900 ≃ .... k) 999 500 ≃ .... l) 6 435.5 ≃ ....

m) 75 049.9 ≃ ....

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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5. Approximate each of the following numbers according to the required approximation:

a) 65 232.1 ≃ .... (to the nearest ten thousand)

b) 13 950.5 ≃ .... (to the nearest ten thousand)

c) 87 654 321 ≃ .... (to the nearest hundred thousand)

d) 650 049.76 ≃ .... (to the nearest hundred thousand)

e) 153 876 ≃ .... (to the nearest 10 000)

f) 65 432.1 ≃ .... (to the nearest 10 000)

g) 10 500 ≃ .... (to the nearest 10 000)

h) 8 943.52 ≃ .... (to the nearest 10 000)

i) 236 849.99 ≃ .... (to the nearest 10 000)

j) 650 049.76 ≃ .... (to the nearest 10 000)

k) 1 234 578.9 ≃ .... (to the nearest 10 000)

l) 4 995 007 ≃ .... (to the nearest 10 000)

m) 61 950 000 ≃ .... (to the nearest 10 000)

n) 87 654 321 ≃ .... (to the nearest 10 000)

o) 999 999 ≃ .... (to the nearest 10 000)

6. Find the result of each of the following, then approximate the result according to the given:

a) 36 708.3 + 17 905 = ... ≃ .... (to the nearest hundred)

b) 893.44 + 987.56 = ... ≃ .... (to the nearest thousand)

c) 17 587.5 – 12 007.2 = ... ≃ .... (to the nearest hundred)

d) 90 000 – 7 891 = ... ≃ .... (to the nearest thousand)

e) 897.2 – 312.1 = ... ≃ .... (to the nearest ten)

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7. Find the result of each of the following operations, then approximate the result to the required approximation:

a) 📖 700 000 – 65 093 = ... ≃ .... (to the nearest ten)
b) 📖 36 523 + 36 582 = ... ≃ .... (to the nearest ten)
c) 📖 60 000 - 48.5 = ... ≃ .... (to the nearest hundred)
d) 29 301.5 + 5 436.4 = ... ≃ .... (to the nearest ten thousand)
e) 149 200.8 + 19 537.9 = ... ≃ .... (to the nearest hundred thousand)
f) 610 503.1 – 807.08 = ... ≃ .... (to the nearest ten thousand)
g) 4 225 ÷ 10 = ... ≃ .... (to the nearest ten)
h) 664 ÷ 100 = ... ≃ .... (to the nearest ten)
i) 93 608.2 + 18 905 = ... ≃ .... (to the nearest ten)
j) 893.44 + 987.56 = ... ≃ .... (to the nearest hundred)

8. Complete the following table with suitable numbers:

	Nearest 10	Nearest 100	Nearest 1000	Nearest 10000	Nearest 100000
Example: 15 873	15 870	15 900	16 000	0	
218 765	....	....	....	....	....
54 123 $\frac{1}{2}$	....	....	....	....	....
199 199.5	....		....	....	....
75 232.75	....	....	....	....	....
6 543 217	....	....	....	....	....
380 451.8	....	....	....	....	....
12 395.98	....	....	....	....	....
....	....	694 500	....	....	....
....	....	409 900	....	....	....
....	....	....	654 000	....	....
284 139	....	....	....	....	....

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

9. Find:

a) The greatest number that if approximated to the nearest ten, the result will be 650.

b) The greatest number that if approximated to the nearest hundred, the result will be 2 700.

c) The greatest number that if approximated to the nearest thousand, the result will be 47 000.

d) The smallest number that if approximated to the nearest thousand, the result will be 89 000.

e) The smallest number that if approximated to the nearest hundred, the result will be 6 800.

f) The smallest number that if approximated to the nearest ten, the result will be 1 980.

g) 📖 The greatest number that if approximated to the nearest ten thousand, the result will be 20 000.

h) The greatest number that if approximated to the nearest hundred thousand, the result will be 9 700 000.

i) 📖 What is the greatest whole number formed from different digits, which if approximated to the neatest hundred thousand, the result will be 98 500 000?

j) 📖 What is the smallest whole number formed from different digits that if approximated to the nearest ten thousand, the result will be 21 060 000?

---

10. Find:

a) The greatest whole number formed from different digits that if approximated to the nearest hundred, the result will be 72 300.

b) The smallest whole number formed from different digits that if approximated to the nearest thousand, the result will be 237 000.

c) Two whole numbers that if each of them is approximated to the nearest hundred, the result will be 600 and the difference between them will be 99.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

11. **Choose the correct answer:**

a) 8 547.3 ≃ 9 000 (to the nearest ....) (10 , 100 , 1 000 or 10 000)

b) 19 407.17 ≃ 20 000 (to the nearest ....) (10 , 100 , 1 000 or 10 000)

c) 32 567 ≃ 32 600 (to the nearest ....) (10 , 100 , 1 000 or 10 000)

d) 6 000 is the approximation of the number .... (to the nearest thousand)

(5 678 , 5 497 , 5 398 or 4 999)

e) 40000 is the approximation of the number .... (to the nearest ten thousand)

(45 000 , 33 245 , 34 989 or 38 783)

---

12. **Complete each of the following with the suitable digits:**

a) 3 5 ☐ 7 ≃ 3 ☐ 2 ☐ (to the nearest ten)

b) 9 ☐ 7 ☐ ≃ ☐ 8 7 ☐ (to the nearest ten)

c) 6 0 ☐ 9 ☐ . 5 4 ≃ ☐ ☐ 1 ☐ ☐ (to the nearest hundred)

d) 2 ☐ ☐ 7 5 . 8 ≃ ☐ 3 ☐ ☐ ☐ (to the nearest thousand)

e) 7 6 ☐ 4 3 5 ≃ 77 ☐ ☐ ☐ ☐ (to the nearest ten thousand)

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من رياض الاطفال للصف الثالث الاعدادي

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



6 Lesson

APPROXIMATING TO THE NEAREST UNIT AND TENTH





Aims

At the end of this lesson, the pupil should be able to:

(1) recognise the approximation to the nearest unit and tenth.

(2) gain the skill of solving exercises about this subject.

WARM UP

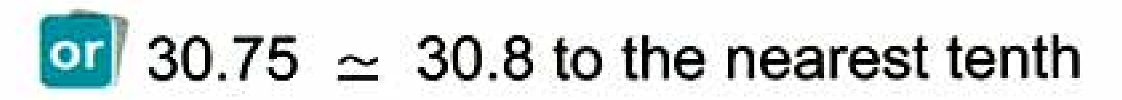
- The mother weighed her daughter Sohair.
- She found that the weight of her daughter was 30.75 kg.
- When Sohair asked her mother about that weight the mother said that it is approximately 30 kg.



i.e. 30.75 $\simeq$ 30 to the nearest unit

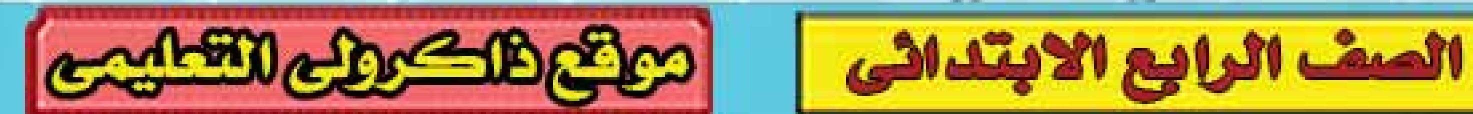
or 30.75 $\simeq$ 30.8 to the nearest tenth

Let us know in this lesson the rules of approximating the decimal numbers to the nearest unit and to the nearest tenth.



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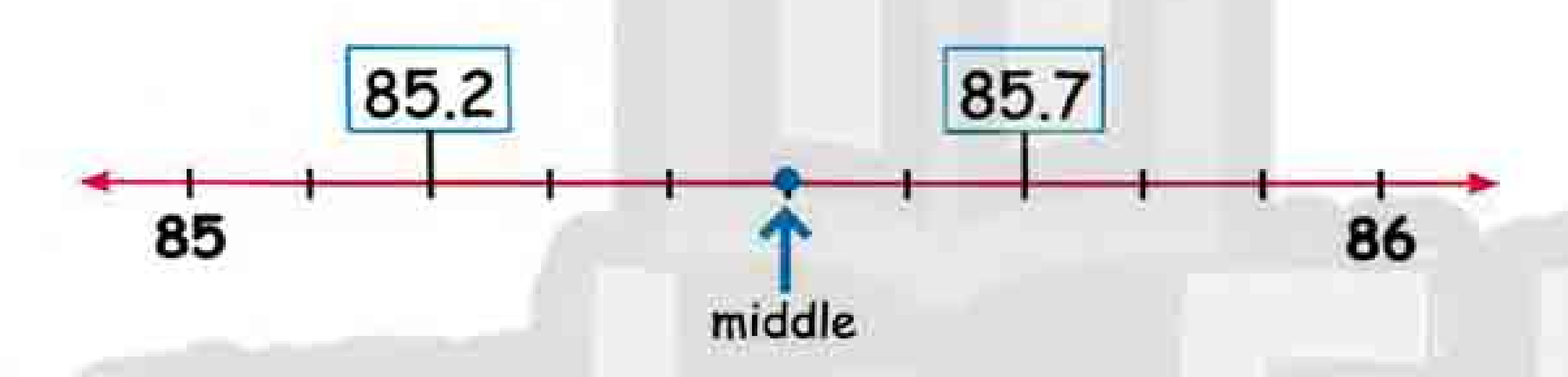
Approximating to the nearest unit and tenth



First Approximating to the nearest unit (or whole number):

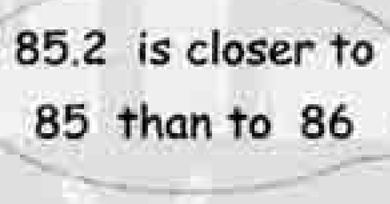


1 **To approximate the number 85.7 to the nearest unit, look at the number line:**



85.7 lies between the whole numbers 85 and 86

85.7 ≃ 86 to the nearest unit.





2 **To approximate the number 85.2 to the nearest unit, look at the number line above:**

85.2 ≃ 85 to the nearest unit.

Rule

- To approximate to the nearest unit, we look at the digit in the tenths place:
  1. If it is 5 or more, then cancel the decimal part, and increase the units digit by 1 and keep the other digits as they are.
  2. If it is less than 5, then cancel the decimal part, and keep the other digits as they are.

For example:

25.⑤32 ≃ 26 , 12.③95 ≃ 12

▶ closer أقرب

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى




Example 1

- Approximate each of the following to the nearest whole number:

a) 65.69 b) 702.301 c) $57\frac{3}{5}$

Solution

a) 65.69 $\simeq$ 66

b) 702.301 $\simeq$ 702

c) $57\frac{3}{5} = 57\frac{3 \times 2}{5 \times 2} = 57\frac{6}{10} = 57.6 \simeq 58$

Another way for c):
$57\frac{3}{5} \simeq 58$ to the nearest unit because $\frac{3}{5} > \frac{1}{2}$ then $\frac{3}{5} \simeq 1$

Example 2

- Approximate each of the following to the nearest unit:

a) 36.35 b) 25.13 c) 799.67

d) $18\frac{11}{25}$ e) $17\frac{3}{4}$ f) $197\frac{5}{8}$

Solution

a) 36.35 $\simeq$ 36

b) 25.13 $\simeq$ 25

c) 799.67 $\simeq$ 800

d) $18\frac{11 \times 4}{25 \times 4} = 18\frac{44}{100} = 18.44 \simeq 18$

e) $17\frac{3}{4} = 17\frac{3 \times 25}{4 \times 25} = 17\frac{75}{100} = 17.75 \simeq 18$

f) $197\frac{5 \times 125}{8 \times 125} = 197\frac{625}{1000} = 197.625 \simeq 198$

Note that:

Sometimes we say approximating to the nearest units of length, weight, time, ... etc. instead of approximating to the nearest unit.

(**i.e** 13.6 pounds $\simeq$ 14 pounds to the nearst pounds).



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Remember that

1 pound = 100 piasters.
1 week = 7 days.
1 kilometer = 1000 meters.
1 hour = 60 minutes.
1 day = 24 hours.
1 meter = 100 centimeters.

Example 3

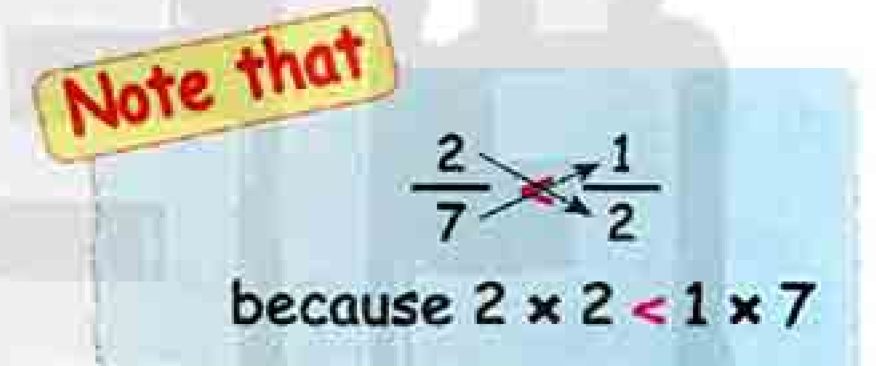
- **Approximate each of the following:**
  - **a)** 77.6 pounds. (to the nearest pound)
  - **b)** 37 days. (to the nearest week)
  - **c)** 64 hours. (to the nearest day)
  - **d)** 246784 metres. (to the nearest kilometre)

Solution

a) 77.6 $\simeq$ 78 pounds

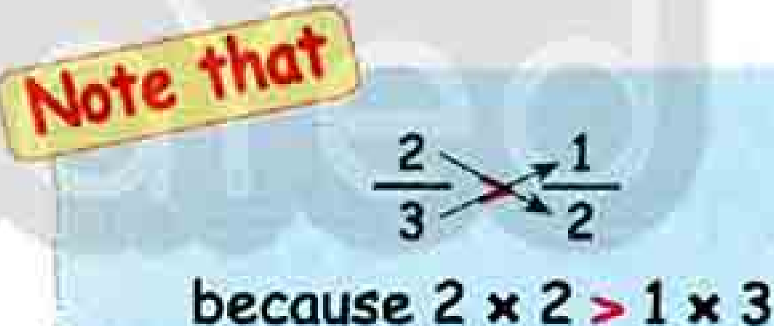
b) 37 days $= \frac{37}{7}$ weeks

$= 5\frac{2}{7}$ weeks $\simeq$ 5 weeks



c) 64 hours $= \frac{64}{24}$ days

$= 2\frac{16}{24} = 2\frac{2}{3} \simeq 3$ days



d) 246784 meters $= 246784 \div 1000$ kilometers

$= 246.784 \simeq 247$ kilometers.

Try to solve

Approximate each of the following:

(a) 67.63 (to the nearest unit)
(b) 402.307 (to the nearest whole number)
(c) 3775 piasters (to the nearest L.E.)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Second ≫ Approximating to the nearest tenth or 0.1 or $\frac{1}{10}$ or one decimal place:

1 **To approximate the number 75.34 to the nearest tenth, look at the number line:**



75.34   75.37

75.30 ——— middle ——— 75.40

$75.34 \simeq 75.3$ to the nearest 0.1

2 **To approximate the number 75.37 to the nearest tenth, look at the number line above:**



$75.37 \simeq 75.4$ to the nearest 0.1

Rule

- To approximate to the nearest **tenth**, we look at the digit in the **hundredths place**:
  1. If it is 5 or more, then cancel the hundredths digit and all the digits to its right, then increase the tenths digit by 1 and keep the other digit as they are.
     For example: $75.37 \simeq 75.4$ (to the nearest 0.1)
  2. If the digit is less than 5, then cancel the hundredths digit and all the digits to its right, and keep the other digits as they are.
     For example: $75.34 \simeq 75.3$ (to the nearest 0.1)

Example 4

- Approximate the following to the nearest tenth.

a) 32.791   **b)** 75.238

▶ Solution

a) The hundredth digit is 9, and $(9 > 5)$ **So**, $32.791 \simeq 32.8$

b) The hundredth digit is 3, and $(3 < 5)$ **So**, $75.238 \simeq 75.2$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

UNIT 1



Solve Ex.

Exercise 7

Approximating to the nearest unit and tenth

1. Represent the following on the number line, then complete:

a) 25.4

25 26

25.4 ≃ .... (to the nearest unit)

b) 13.48

13.40 13.50

13.48 ≃ .... (to the nearest tenth)

c) 67.15

67.1 67.2

67.15 ≃ .... (to the nearest tenth)

d) 28.3



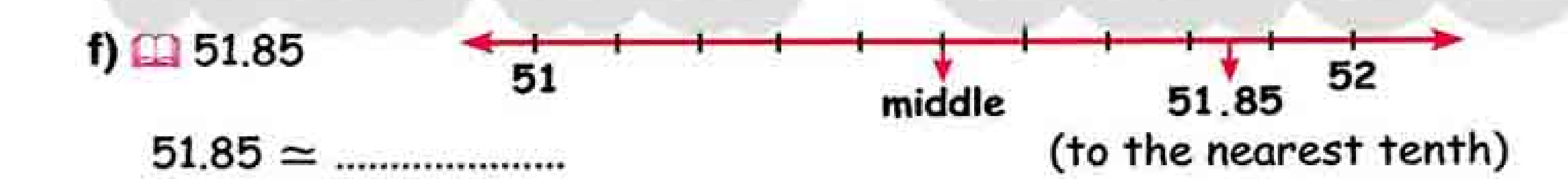
28.3 ≃ .... (to the nearest unit)

e) 140.5



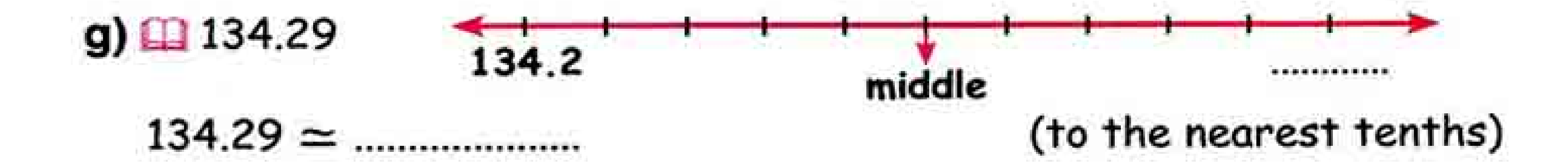
140.5 ≃ .... (to the nearest unit)

f) 51.85



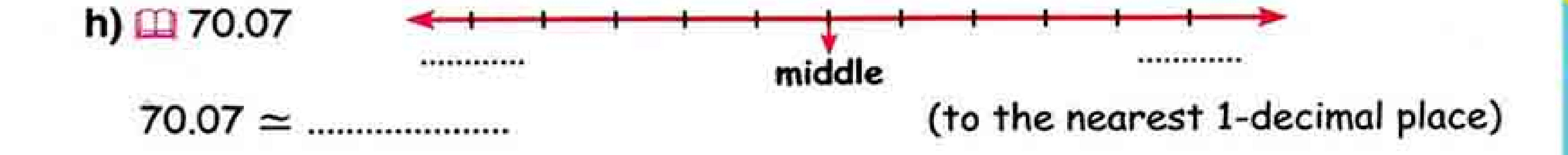
51.85 ≃ .... (to the nearest tenth)

g) 134.29



134.29 ≃ .... (to the nearest tenths)

h) 70.07



70.07 ≃ .... (to the nearest 1-decimal place)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. Approximate the following to the nearest unit as the example:

Example: $324.17 \simeq 324$

a) 112.37 ≃ ....

b) 19.98 ≃ ....

c) 271.9 ≃ ....

d) $127 \frac{5}{8}$ ≃ ....

e) $715 \frac{3}{8}$ ≃ ....

f) 📖 296.04 ≃ ....

g) 📖 13.75 ≃ ....

h) 📖 90.092 ≃ ....

i) 📖 170.597 ≃ ....

j) 📖 43.95 ≃ ....

k) 📖 $449 \frac{3}{4}$ ≃ ....

l) 📖 $502 \frac{37}{100}$ ≃ ....

m) 📖 $6399 \frac{7}{50}$ ≃ ....

3. Approximate the following to the nearest tenth as the example:

Example: $75.08 \simeq 75.1$

a) 18.338 ≃ ....

b) 15.975 ≃ ....

c) 13.085 ≃ ....

d) $12 \frac{1}{4}$ ≃ ....

e) $10 \frac{7}{20}$ ≃ ....

f) 📖 53.5 ≃ ....

g) 📖 10.1 ≃ ....

h) 📖 624.09 ≃ ....

i) 📖 600.601 ≃ ....

j) 📖 $\frac{7}{10}$ ≃ ....

k) 📖 $\frac{3}{5}$ ≃ ....

l) 📖 $967 \frac{3}{4}$ ≃ ....

4. 📖 Approximate the following to the nearest whole number:

a) 10.1　　b) 53.5　　c) 624.09

d) 7.499　　e) $967 \frac{1}{4}$　　f) $204 \frac{3}{4}$

5. 📖 Approximate the following to the nearest one decimal place:

a) 13.57　　b) 269.04　　c) 83.914

d) 90.092　　e) $502 \frac{37}{100}$　　f) $449 \frac{3}{4}$

Rania Sayed

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

6. The following table shows the time in minutes spent by a pupil in doing his daily activities, answer the following questions:

Activity	Studying	Playing	Watching TV
Time in minutes	125	45	30

a) What is the time consumed by the pupil in studying approximated to the nearest hour?

b) What is the total time consumed by the pupil in doing the three activities approximated to the nearest hour?

7. Complete the table with suitable numbers as the example:

		The number approximated to the nearest			
	Number	Tenth	Unit	Ten	Hundred
Example:	7346.83	7346.8	7347	7350	7300
	30780.55	....	....	....	....
	28059.019	....	....	....	....
	....	45832.6	....	....	....
	....	....	50381	....	....
	....	....	....	29870	....
	....	....	....	....	73200
	....	....	....	....	....

8. If the distance between two cities is 7825 metres, approximate this distance to the nearest kilometer.

9. Complete:

a) 532.45 dm $\simeq$ .... m.

b) 12 456 dm $\simeq$ .... km.

c) 65 475 m $\simeq$ .... km.

d) 47 983 m $\simeq$ .... km.

e) LE. 78.9 $\simeq$ L.E. ....

f) P.T. 456 $\simeq$ L.E. ....

g) 5 hours and 15 minutes $\simeq$ .... hours.

h) 3 hours and 35 minutes $\simeq$ .... hours.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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10. Find the result, then approximate it to the required approximation:

a) 14.352 + 25.687 = ... ≃ .... (to the nearest tenth)

b) 253.607 - 114.98 = ... ≃ .... (to the nearest unit)

c) 453.64 - 72.317 = ... ≃ .... (to the nearest tenth)

d) 45.6 + 83.7 = ... ≃ .... (to the nearest unit)

e) 75 + 64.5 = ... ≃ .... (to the nearest unit)

f) 53.64 + 8.601 = ... ≃ .... (to the nearest unit)

g) 104.9 - 23.58 = ... ≃ .... (to the nearest unit)

h) 864.3 + 75.2 = ... ≃ .... (to the nearest ten)

i) 453.64 - 72.317 = ... ≃ .... (to the nearest one decimal place)

11. Find the result, then approximate it to the required approximation:

a) 2 478 + 9 835 = ... ≃ .... (to the nearest 100)

b) 7 000 000 - 134 609 = ... ≃ .... (to the nearest 1 000)

c) 59.568 + 45.730 = ... ≃ .... (to the nearest unit)

d) 86.70 - 3.45 = ... ≃ .... (to the nearest $\frac{1}{10}$)

e) $\frac{1}{2} + 3$ = ... ≃ .... (to the nearest whole number)

f) 9 685 ÷ 100 = ... ≃ .... (to the nearest tenth)

12. Carrying out the approximation operations, discover directly the mistake in each of the following approximated results giving the reason:

a) 6 273.5 ≃ 6 270 (to the nearest hundred)

(Wrong because ....)

b) 2 000.08 ≃ 20 000 (to the nearest whole number)

(Wrong because ....)

c) 2 222 + 3 333 ≃ 5 550 (to the nearest ten)

(Wrong because ....)

d) 999.9 - 555.5 ≃ 440 (to the nearest hundred)

(Wrong because ....)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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13. Write each of the required numbers using all the digits 2 , 3 , 5 , 8 and decimal point to satisfy the following equalities as the example:

Example: 82.35 $\simeq$ 82 to the nearest unit.

a) .... $\simeq$ 20 to the nearest ten.

b) .... $\simeq$ 83.3 to the nearest tenth.

c) .... $\simeq$ 8000 to the nearest thousand.

d) .... $\simeq$ 9000 to the nearest thousand.

e) .... $\simeq$ 28.4 to the nearest ($\frac{1}{10}$).

f) .... $\simeq$ 240 to the nearest (10).

14. Choose the correct answer in each of the following:

a) 654.3 is the approximation of the number .... (to the nearest tenth)
- 654.29
- 654.36
- 654.35

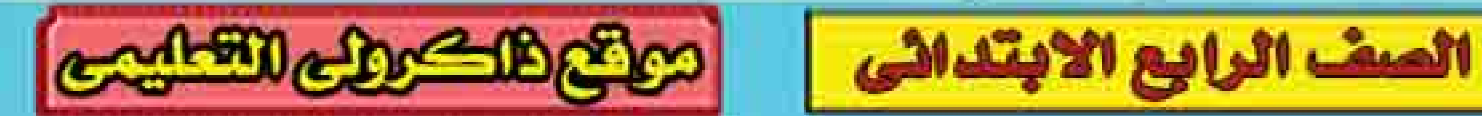
b) 37.6 is the approximation of the number 37.63 to the nearest ....
- unit
- tenth
- ten

c) 570 is the approximation of the number .... (to the nearest unit)
- 571.7
- 570.2
- 571.8

d) 20 is the approximation to the nearest unit of all the following numbers except ....
- 19.98
- 20.1
- 31.3



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

General Exercises on Unit 1

1. Choose the correct answer from those between brackets:

1) 1 548 ÷ 100 = ... (154.8 , 15.48 , 154 **or** 0.48)

2) 251 056 ≃ 251 100 to the nearest .... (10000 , 1000 , 100 **or** 10)

3) 6 thousandths added to 4 hundredths equals .... (0.46 , 0.046 , 0.64 **or** 0.0064)

4) The value of the digit 3 in the number 2.35 = ... (0.3 , 3 , 0.03 **or** 0.003)

5) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 , 7.937 **or** 7.439)

6) The value of the digit (6) in the number 18.36 is .... (6 , 60 , 0.06 **or** 600)

7) $9\frac{7}{100}$ = ... (9.07 , 9.7 , 9.007 **or** 7.09)

8) $\frac{3}{4}$ = ... (0.75 , 0.8 , 0.0755 **or** 0.25)

9) $657\frac{4}{5}$ = ... to the nearest whole number. (657 , 658 , 655 **or** 659)

10) The number $\frac{17}{5}$ = ... ($2\frac{3}{5}$, $5\frac{2}{3}$, $5\frac{3}{5}$ **or** $3\frac{2}{5}$)

11) The value of the digit (4) in the number 0.241 is .... (0.04 , 0.4 , 4 **or** 40)

12) 📖 $7\frac{3}{5}$ = ... (7.6 , 6.7 **or** 7.5)

13) 78 ÷ 10 = ... (8.7 , 780 **or** 7.8)

14) 494 ÷ 100 = ... (5.95 , 4.94 **or** 49.4)

15) $4\frac{1}{5}$ .... 4.2 (> , < , = **or** otherwise)

16) 35.26 ≃ 35.3 to the nearest .... (0.1 , 0.01 , 0.001 **or** 10)

17) The decimal number which is included between (0.6 , 0.7) is ....

(0.71 , 0.67 , 0.59 **or** 0.76)

18) $7\frac{3}{5}$ = ... in the improper fraction form. ($\frac{15}{5}$, $\frac{26}{5}$, $\frac{38}{5}$ **or** $\frac{10}{5}$)

19) $7\frac{3}{5}$ = ... in decimal form. (7.6 , 6.7 **or** 7.5)

20) The value of the digit (3) in the number 4.238 is .... (0.3 , 0.03 , 3 **or** 0.003)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

21) 📖 $\frac{9}{4}$ = ... (2.5 , 2.25 , 2.75 or 2.1)

22) 96.58 .... (to the nearest unit) (96 , 97 , 96.5 or 96.6)

23) The decimal whose value is included between 0.3 and 0.4 is ....

(0.41 , 0.31 , 0.13 or 0.4)

24) Fifty-six thousandths is written as .... (0.56 , 0.65 , 0.065 or 0.056)

2. Put the suitable sign (< , = or >):

1) 7 850 ÷ 100 .... 78.5

2) The value of digit (4) in the number 0.941 .... the value of digit (2) in the number 0.21

3) 28.4 .... 2.84

4) 5.7 + 1.4 .... 12.78 − 3.5

5) 1.75 .... $1\frac{3}{4}$

6) 35 × 10 .... 3 × 100

7) 800 ÷ 100 .... 785 ÷ 10

8) 7.9 + 2.3 .... 11.7 − 1.3

3. Complete each of the following:

1) 159.5 + 375.3 ≃ .... (to the nearest hundred)

2) 86.7 − 17.45 ≃ .... (to the nearest one decimal)

3) 73 641 ÷ 1 000 ≃ .... (to the nearest 10)

4) 9.467 = 9 + ... + 0.06 + ...

5) $8 - 3\frac{4}{5}$ ≃ .... (to the nearest unit)

6) 7 units and 5 thousandths = ...

7) $3\frac{1}{4}$ kg. = ... gm.

8) 32 749 − 9 378 ≃ .... (to the nearest thousand)

9) The decimal 0.19 is included between .... and ....

10) 86.9 ≃ 90 to the nearest ....

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11) 0.1 + ... = 1

12) The number 5.7 = 5 + ...

13) 6198 $\simeq$ .... (to the nearest ten)

14) Sixty five and eight tenths is written as ....

15) 412 ÷ 1000 = ...

16) $3 = \frac{....}{8} = \frac{9}{....}$

17) 0.37 + 0.43 + ... = 1

18) $2\frac{5}{7} = \frac{....}{....}$

19) $\frac{9}{5} = \frac{9 \times ....}{5 \times ....} = 1.8$

20) 42.85 ÷ 10 = ... $\simeq$ .... (to the nearest one decimal)

21) $1 - \frac{1}{5} \simeq$ .... (to the nearest unit)

22) $\frac{77}{7} = \frac{......}{......} =$ ....

23) 10 , 9.6 , 9.2 , ... , ... in the same pattern.

24) 0.6 − 0.275 = ...

25) 9.8 − 4.3 = ...

26) 58 ÷ 10 = ...

27) $\frac{3}{4} = \frac{....}{8}$

28) The value of the digit 7 in the number 123.579 is ....

29) 1 = 0.4 + ...

30) 93.82 $\simeq$ .... to the nearest one decimal.

31) Sixty five and eight hundredths is written as ....

32) 3.2 , 3.4 , 3.6 , ... in the same pattern.

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4. Put (✓) or (✗):

1) $0.49 < 0.5$ ( )

2) $1 = 0.25$ ( )

3) 4 units and 8 tenths = 8.4 ( )

4) The number 8500 is the approximation of the number 8532 to the nearest 1000. ( )

5) The improper fraction of the number $5\frac{1}{4}$ is $\frac{10}{4}$. ( )

6) Twenty-nine thousandths is written as 0.029. ( )

7) $0.37 = 0.7 + 0.30$. ( )

8) Seven and fifty-three hundredth = 53.7. ( )

9) $4.9 < 9 + 0.4$ ( )

10) 20, 17 , 14 and 11 is a pattern decreasing by 3. ( )

11) 6 hundredths + 16 tenths = 6.22 ( )

12) The value of the digit (3) in the number 72.435 = 0.30. ( )

5. Arrange ascendingly:

1) ($6\frac{1}{4}$, 6.63 , $6\frac{1}{2}$ and 6.11)

2) (33.12 , 33.02 , 30.8 and 30.196)

6. Find the result of each of the following:

1) $12.7 + 10.007 \simeq$ .... (to the nearest $\frac{1}{10}$)

2) $52.46 - 2.731 \simeq$ .... (to the nearest unit)

3) $23456 \div 100 \simeq$ .... (to the nearest 10)

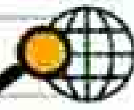
4) $\frac{3}{4}$ + ... = 1

5) $96.8 - 62.31 \simeq$ .... (to the nearest $\frac{1}{10}$)

6) $42819 \div 1000 \simeq$ .... (to the nearest unit)

7. If Hossam has 425 pounds, and his sister Hoda has 98.75 pounds.

Find the difference between what they have.

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Basic Cumulative Skills on Unit (1) (TIMSS)

First Choose the correct answer in each of the following:

1. Which numerical statement is true:

   a) 203.901 > 230.901 b) 9.007 < 9.07

   c) 0.002 < 0.0002 d) 13 > 12.99

2. The digit which represents the hundredth in 523.607 is ....

   a) 5 b) 0 c) 7 d) 3

3. Which of the following represents the number 23.701?

   a) Two hundred thirty and seventy hundredths.

   b) Twenty three and seven hundred one tenths

   c) Twenty three and seven hundred one hundredths

   d) Twenty three and seven hundred one thousandths

4. 25 × 7 × 4 = ...

   a) 36 b) 700 c) 179 d) 280

5. The number .... is divisible by 3.

   a) 28 b) 13 c) 7 d) 24

6. .... is the smallest prime number.

   a) 2 b) 1 c) 3 d) 5

Second Complete each of the following:

7. Five millions, one hundred forty two thousand and seven tenth is written as ....

8. (5 × 5) - 5 = ...

9. 5 × 3 + 5 × 7 = 5 × ....

10. 1.3 = 1.30 = 1.300 because ......

11. The greatest whole number that if approximated to the nearest thousand gives 5000 is .... while the smallest is ....

12. The greatest whole number, the sum of its digits is 21 and if approximated to the nearest hundred gives the result 3700.

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UNIT TEST



1 Choose the correct answer from the given ones:

1. 1.07 + 9 = ... (1.16 , 1.79 , 10.07 , 10.70)
2. 82 051 – 31 981 approximated to the nearest thousand is .... (5 thousand , 50 hundred , 5 million , 50 thousand)
3. 0.67 + ... = 1 (0.3 , 0.33 , 0.033 , 3.3)
4. 2 345 ÷ 100 = ... (23.45 , 45.23 , 234.5 , 2.345)
5. 6 240 ÷ 1000 = ... (6.24 , 62.4 , 624 , 0.624)
6. $4\frac{7}{10}$ + 3.07 = ... (7.14 , 7.77 , 7.4 , 0.74)
7. 6.5 + 2.5 .... 12.8 – 3.8 ($>$, $<$, $=$, $\simeq$)
8. The value of the digit 3 in the number 4.238 is .... (0.3 , 0.03 , 3 , 0.003)

2 Complete each of the following:

9. 15 – 3.45 = ...
10. 12.7 + 10.007 = ... $\simeq$ .... (to the nearest $\frac{1}{10}$)
11. $4\frac{8}{10}$ + 4.08 = ... $\simeq$ .... (to the nearest unit)
12. $5\frac{3}{4} \simeq$ .... (to the nearest unit)

3 Answer the following:

13. Seif has 12.89 pounds and his sister Sama has 3.19 pounds, find the difference between what they have to the nearest unit.

....

14. Ahmed has 35 pounds. He bought a ball for 9.75 pounds and a book for 5.25 pounds. What is the remainder with Ahmed?

....

....

15. Arrange in an ascending order: 4.5 , 0.45 , 0.54 and 5.4

....

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Unit 2 Geometry



Lessons of the Unit

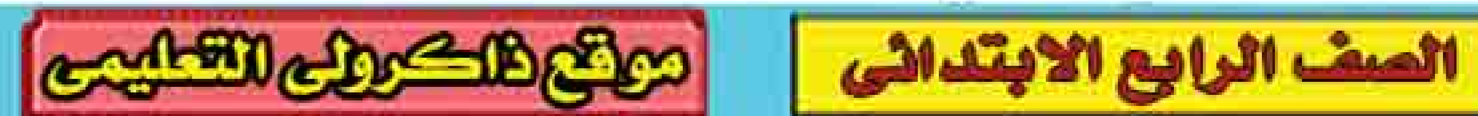
Lesson 1 Congruency

Lesson 2 Symmetrical figures and lines of symmetry

Lesson 3 Visual patterns

▷ General Exercises on Unit 2.

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Congruency



Prelude

How do you verify the congruency of two figures practically?

So: Follow the following steps:

1st: Get a sheet of tracing paper and copy the first figure.

2nd: Flip the tracing paper on the second figure and move it till you get the two figures identically on each other such that you can see only one figure, then you become sure that the two figures are congruent.

First Congruent polygons:

Two polygons are congruent if:





and



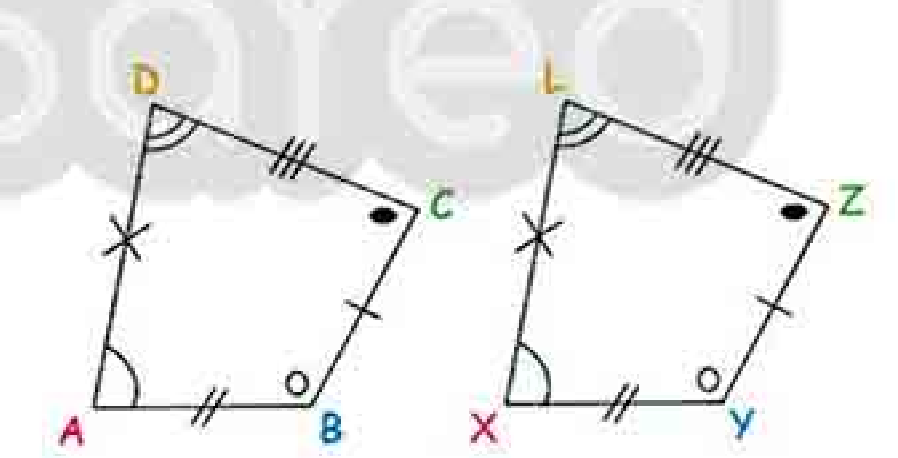
For example:

In the opposite figures if:

1. AB = XY, BC = YZ, CD = ZL and DA = LX

and

2. m (∠ A) = m (∠ X), m (∠ B) = m (∠ Y), m (∠ C) = m (∠ Z) and m (∠ D) = m (∠ L)



Then: we write

the polygon ABCD ≡ the polygon XYZL

Where the symbol ≡ is read as "is congruent to"

Note that

We should write the two congruent polygons in the same order of their corresponding vertices.



▸ corresponding	متناظر (أى ما يقابله فى الآخر)	congruent	متطابقة



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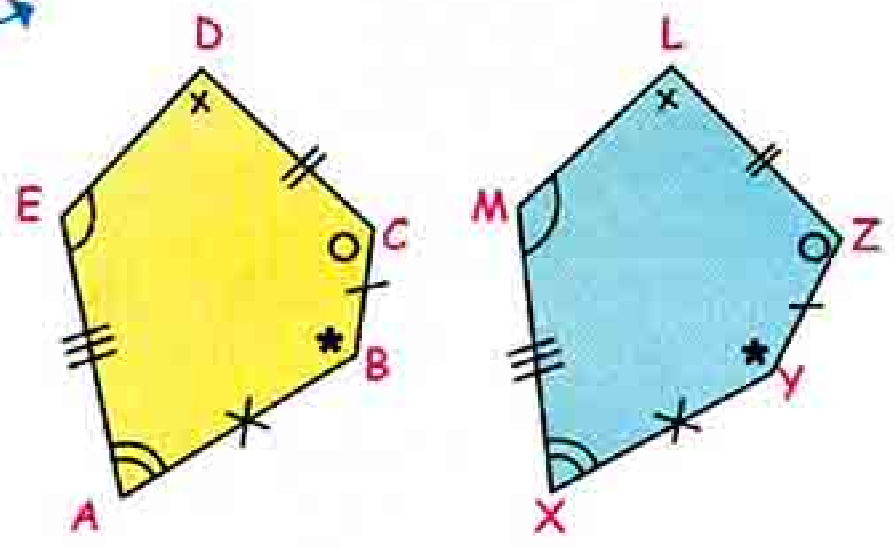

For example:

If the polygon ABCDE ≡ the polygon XYZLM,
then:

1. AB = XY , BC = YZ , CD = ZL ,

and DE = LM and AE = XM

2. m (∠A) = m (∠X), m (∠B) = m (∠Y),
m (∠C) = m (∠Z), m (∠D) = m (∠L)
and m (∠E) = m (∠M)



Second › Congruent line segments:

The two line segments that have the same length are congruent.

For example:

AB = CD = 3 cm

A ——— B 3 cm

C ——— D 3 cm

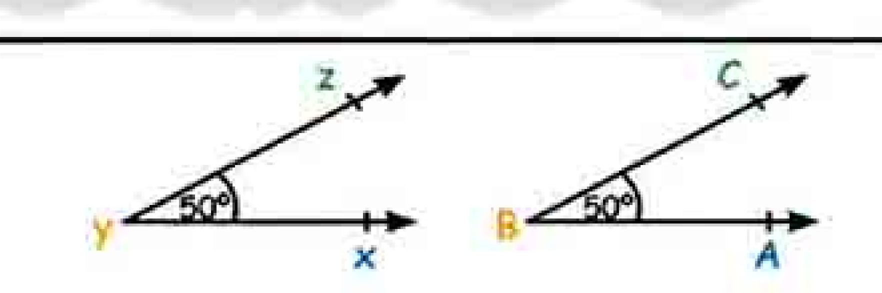
We write: $\overline{AB} \equiv \overline{CD}$

So, we say: line segment AB is congruent to line segment CD.

Third › Congruent angles:

The two angles that have the same measure are congruent.

For example:

m (∠ABC) = m (∠XYZ) = 50° **We write:** ∠ABC ≡ ∠XYZ **So, we say:** ∠ABC is congruent to ∠XYZ.	

polygons	مضلعات	vertices	رءوس

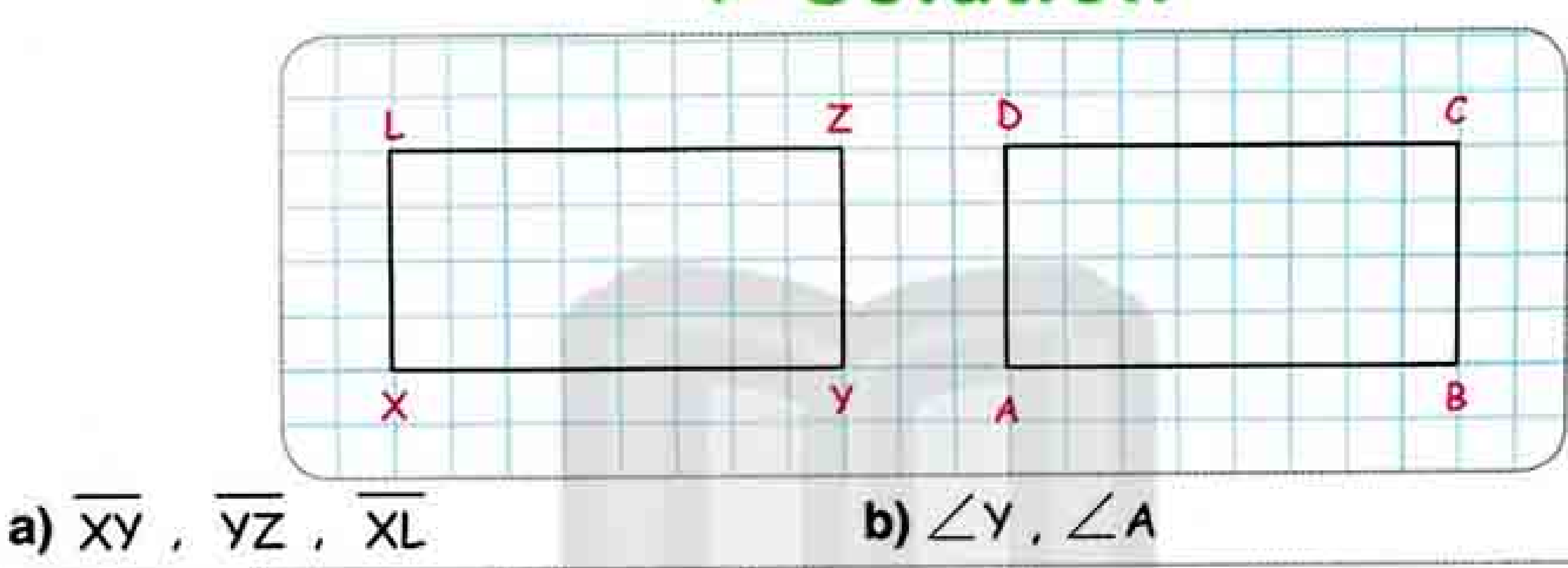

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Example 1

- Draw the two rectangles ABCD and XYZL where AB = XY = 4 cm and BC = YZ = 2 cm. Then complete:

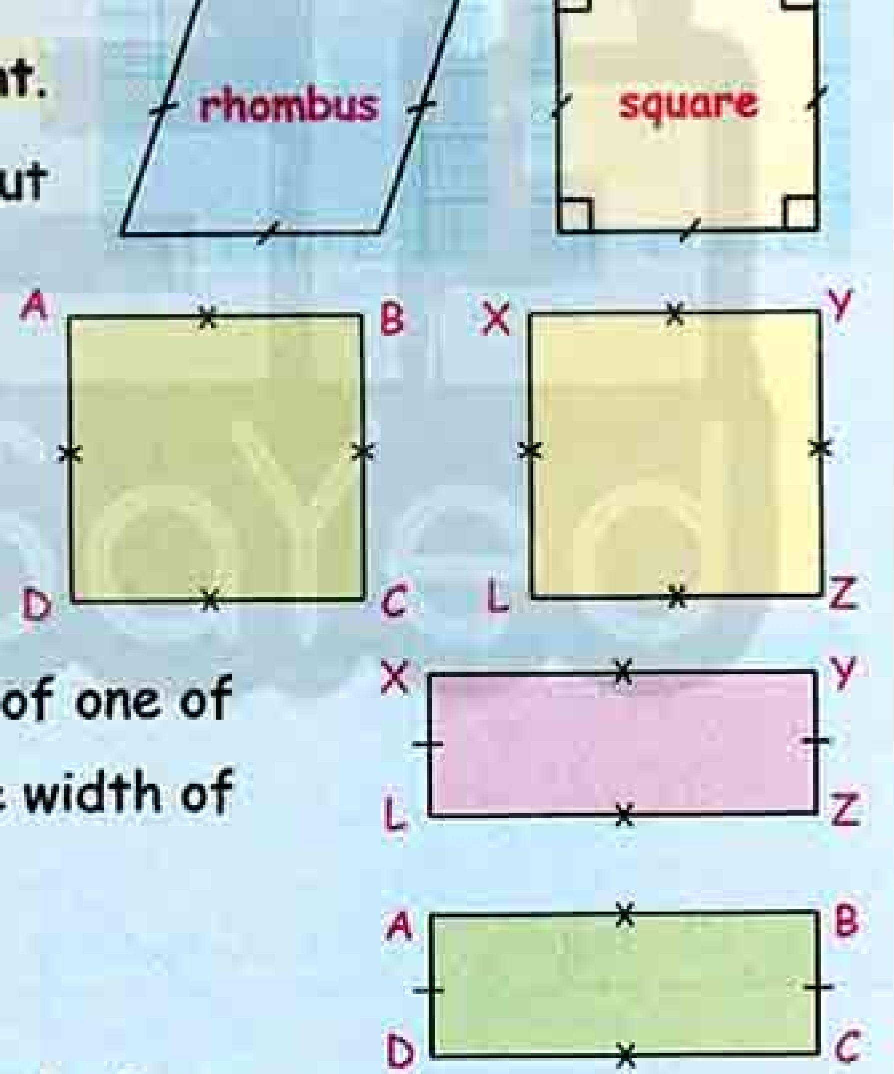
a) $\overline{AB} \equiv$ .... , $\overline{BC} \equiv$ .... and $\overline{AD} \equiv$ .... b) $\angle B \equiv \angle$ .... and $\angle X \equiv \angle$ ....

▶ Solution



a) $\overline{XY}$, $\overline{YZ}$, $\overline{XL}$ b) $\angle Y$, $\angle A$

Note that



1. The two opposite polygons are **not congruent**. Because the corresponding sides are equal but the corresponding angles are not equal.
2. Two squares are congruent if the side length of one of them equals the side length of the other.
   square ABCD ≡ square XYZL
3. Two rectangles are congruent if the length of one of them equals the length of the other and the width of one of them equals the width of the other.
   rectangle XYZL ≡ rectangle ABCD
4. Two triangles are congruent if each side length of one of them equals the corresponding side length of the other.
   i.e. **△ABC ≡ △XYZ**

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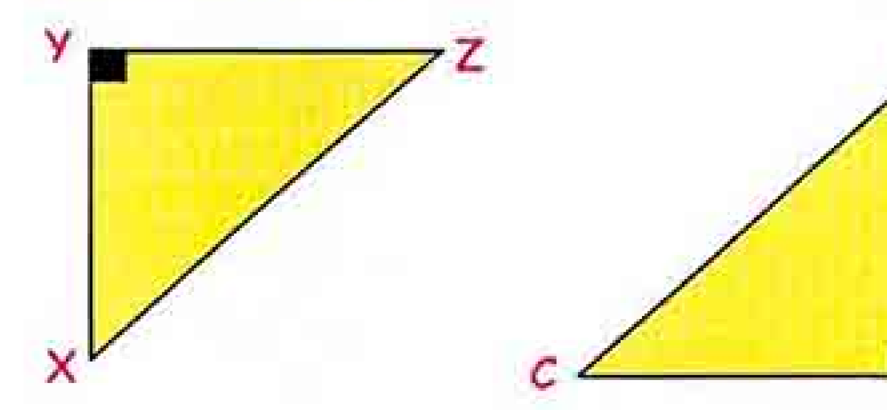
Example 2

In the opposite figures: if $\triangle ABC \equiv \triangle XYZ$, then complete:

$\overline{AB} \equiv$ .... $\overline{AC} \equiv$ ....

$\overline{YZ} \equiv$ .... $\angle Y \equiv$ ....

$\angle C \equiv$ .... $\angle A \equiv$ ....



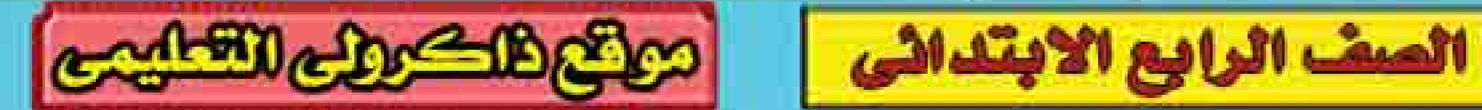
Solution

$\overline{AB} \equiv \overline{XY}$, $\overline{AC} \equiv \overline{XZ}$, $\overline{YZ} \equiv \overline{BC}$, $\angle Y \equiv \angle B$, $\angle C \equiv \angle Z$, $\angle A \equiv \angle X$

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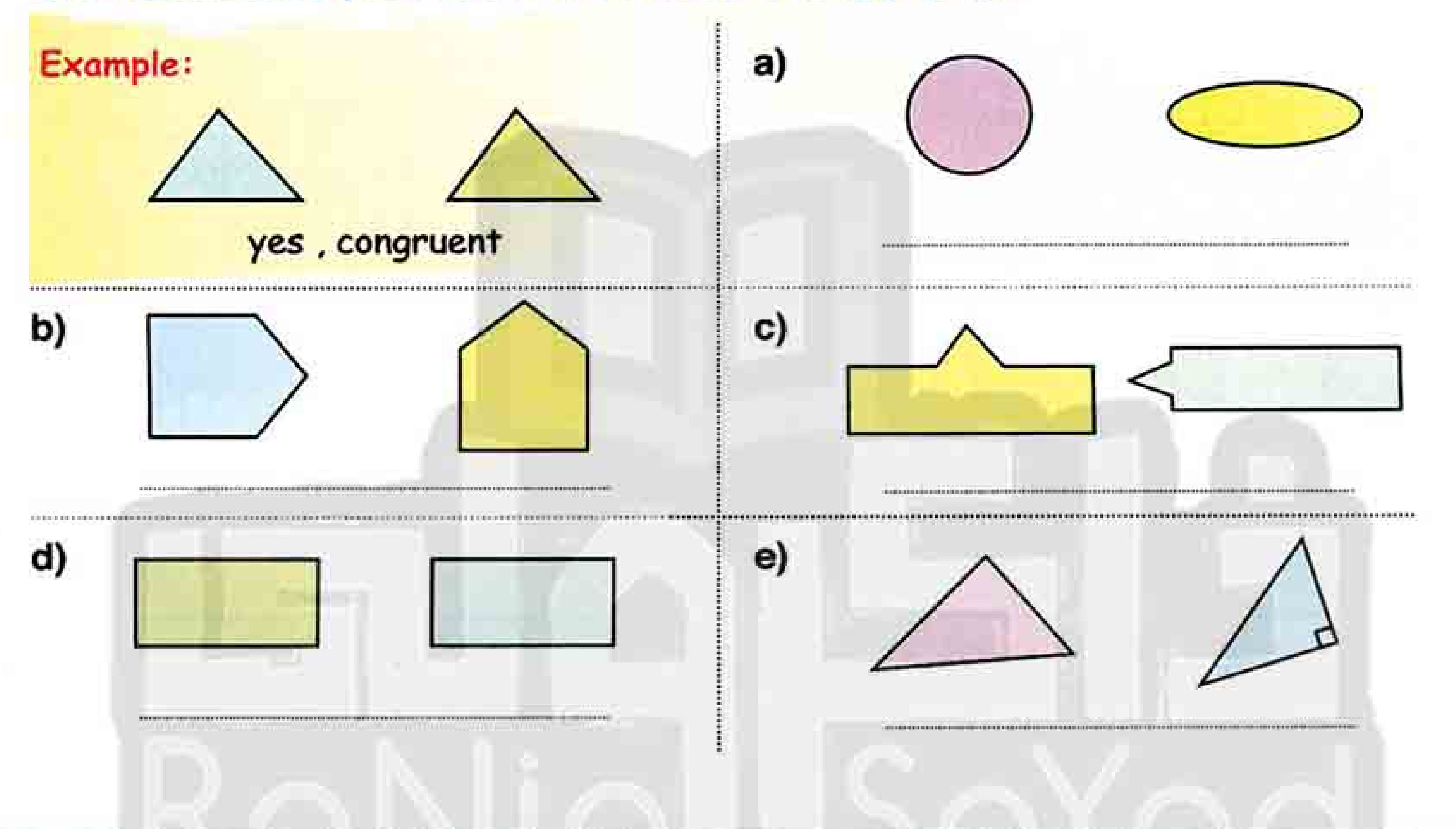


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Solve Ex.

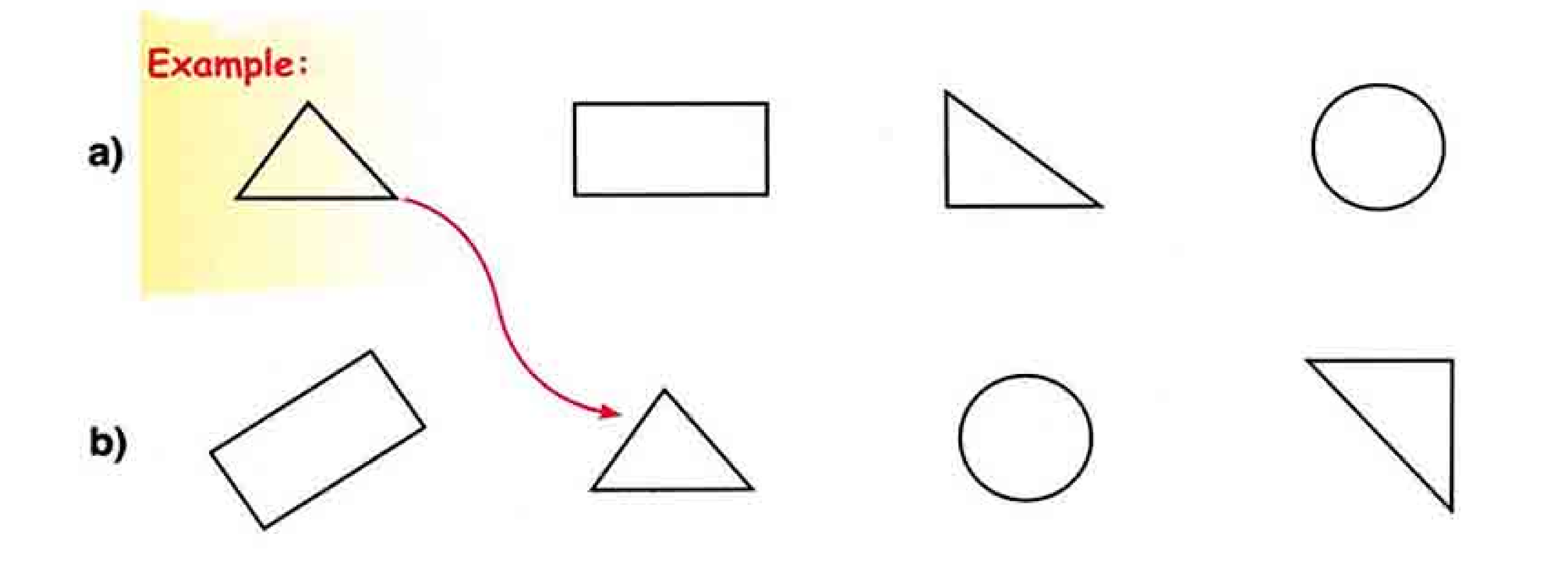
Exercise 1

Congruency

1. Are the figures congruent? Write the answer as the example (to become sure you can use a sheet of tracing paper):



2. Join each figure in group **(a)** to its congruent figure from group **(b)** as the example:

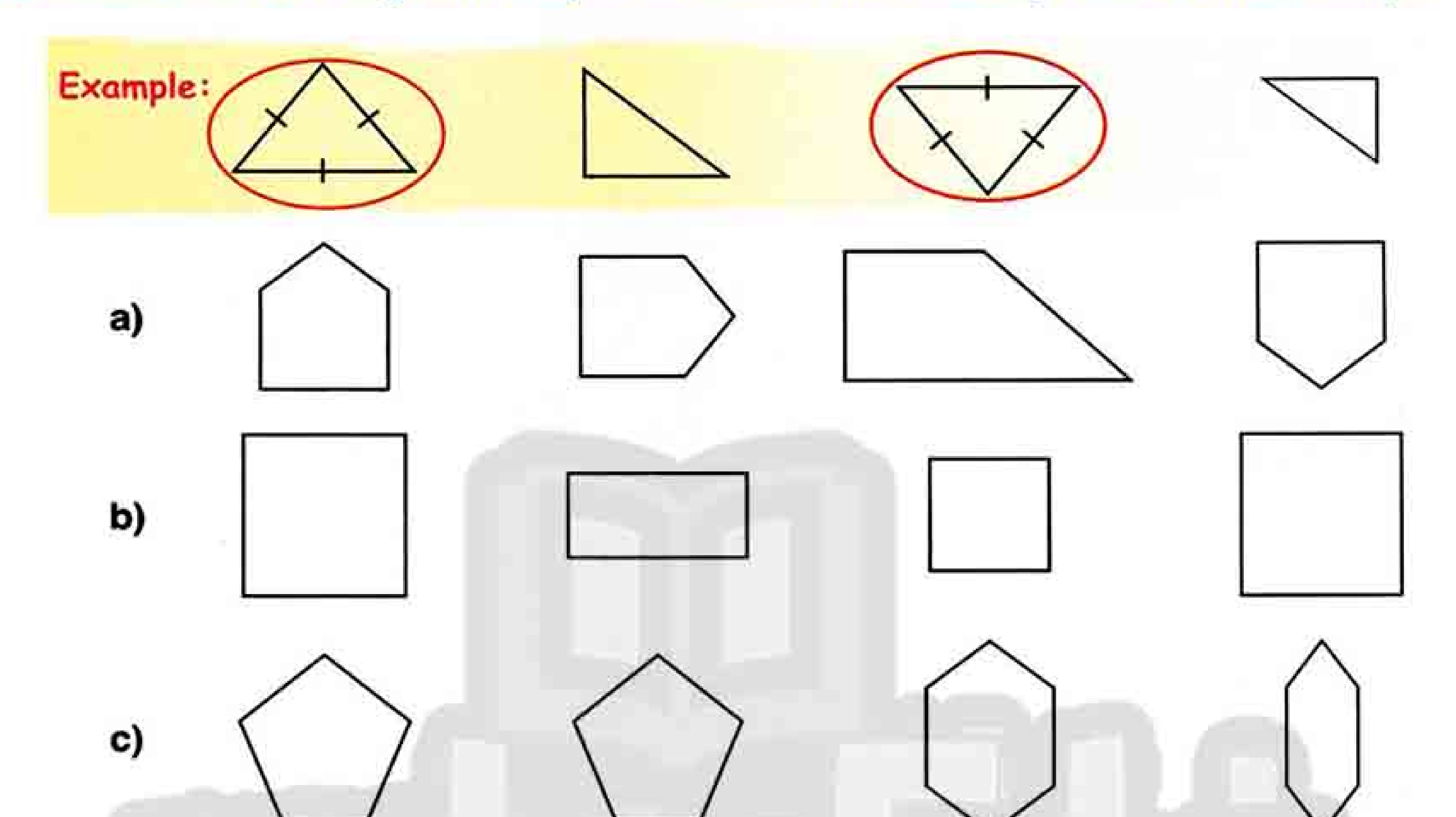


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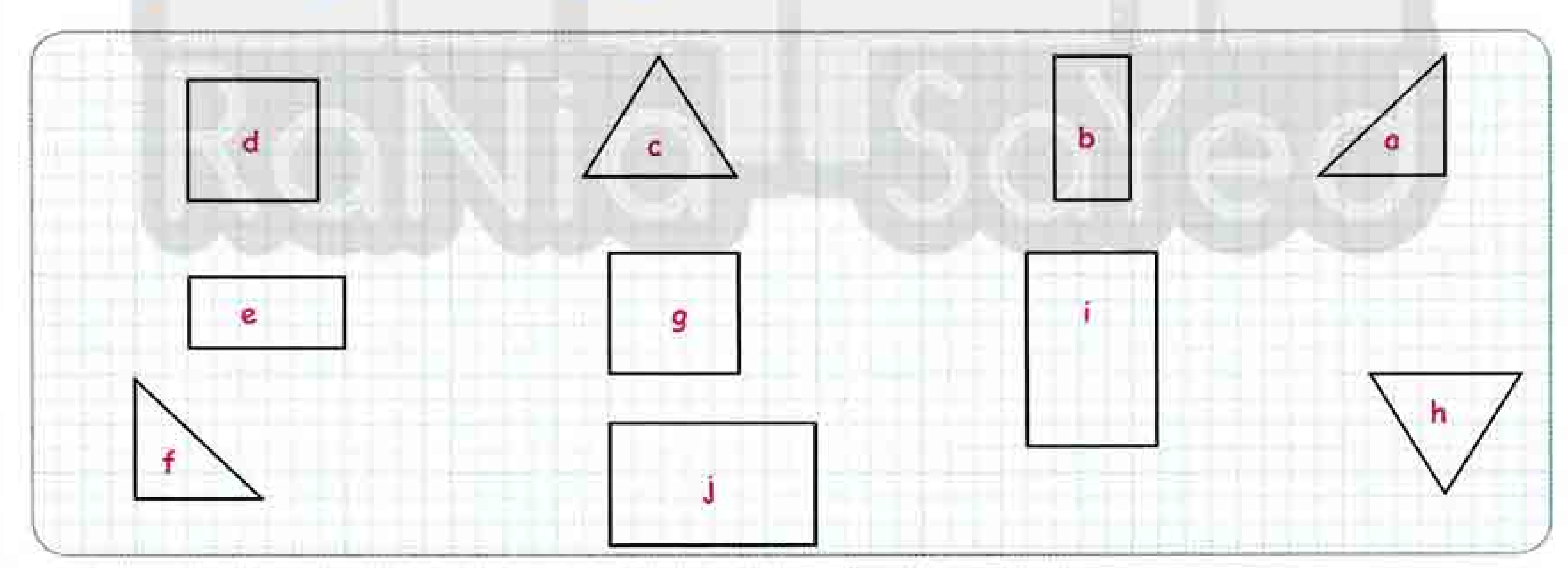




3. Choose the two congruent shapes in each of the following cases as the example:



4. Complete using the following figures:



a) The figure (a) ≡ the figure (............)

b) The figure (b) ≡ the figure (............)

c) The figure (c) ≡ the figure (............)

d) The figure (d) ≡ the figure (............)

e) The figure (i) ≡ the figure (............)

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5. **In the opposite figures:** If Δ ABC ≡ Δ KLM,

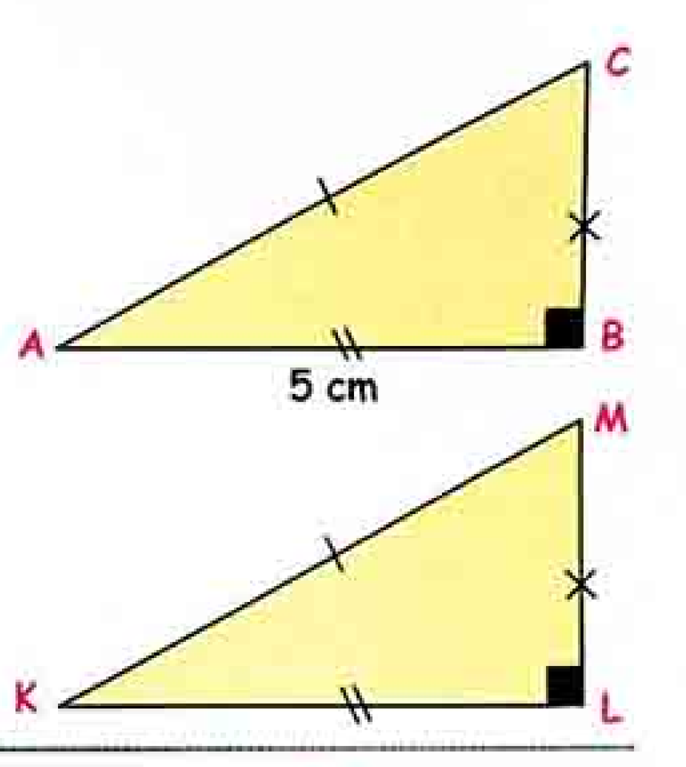
complete:

a) $\overline{AC}$ ≡ ....

b) $\overline{LM}$ ≡ ....

c) ∠B ≡ ∠ ....

d) KL = ... = ... cm



6. **In the opposite figures:** If Δ ABC ≡ Δ XYZ,

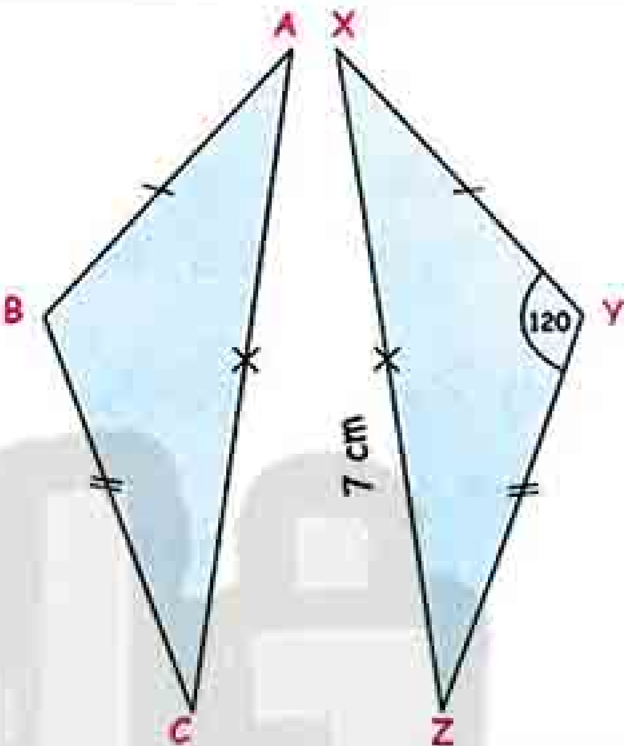
complete:

a) AC = ... = ... cm

b) $\overline{BC}$ ≡ ....

c) ∠C ≡ ∠ ....

d) m (∠B) = m (∠ ....) = ...°



7. **In the opposite figures:** If Δ ABC ≡ Δ XYZ,

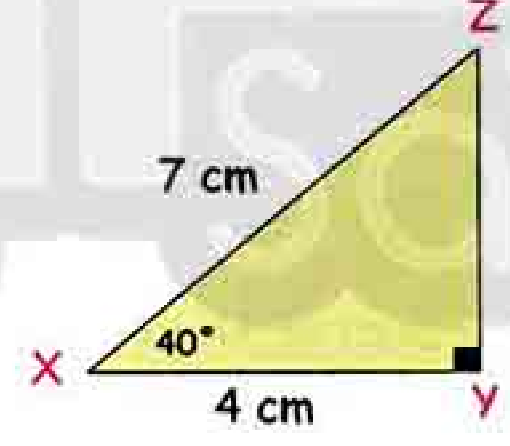
complete:

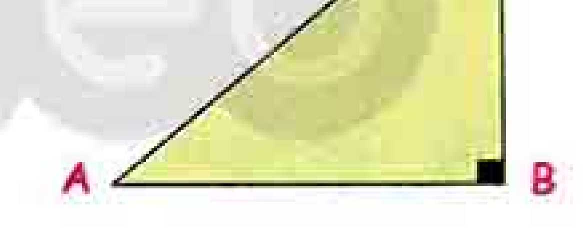
a) m (∠A) = ...°

b) m (∠Z) = ...°

c) AC = ... cm

d) AB = ... cm





8. **Choose the correct answer in each of the following:**

a) If figure ABCD ≡ figure XYZL, then ∠A ≡ ....
- ∠B
- ∠C
- ∠X
- ∠Z

b) If △XYZ ≡ △LMN, then $\overline{LM}$ ≡ ....
- $\overline{XY}$
- $\overline{YZ}$
- $\overline{ZX}$
- $\overline{MN}$

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9. Complete:

a) Two polygons are congruent if their corresponding sides are .... and their corresponding angles are ....

b) The diagonal of the rectangle divides it into two .... triangles.

c) Two squares are congruent if the side length of one of them is equal to ....

d) Two rectangles are congruent if the dimensions of one of them are .... dimensions of the other rectangle.

---

10. Put (✓) for the correct statement and (X) for the incorrect one:

a) A square can be congruent to a circle. (.............)

b) 📖 A square of side length 7 cm can be congruent to a rectangle of dimensions 7 cm and 5 cm. (.............)

c) 📖 Two right-angled triangles are congruent if the two sides of the right angle in the first triangle equal the two corresponding sides of the right angle in the other. (.............)

d) Two squares are congruent if their side lengths are equal. (.............)

e) Two triangles are congruent if their corresponding sides are equal in length. (.............)

f) The diagonal of the rectangle divides it into two congruent triangles. (.............)

g) 📖 A scalene triangle can be congruent with isosceles triangle. (.............)

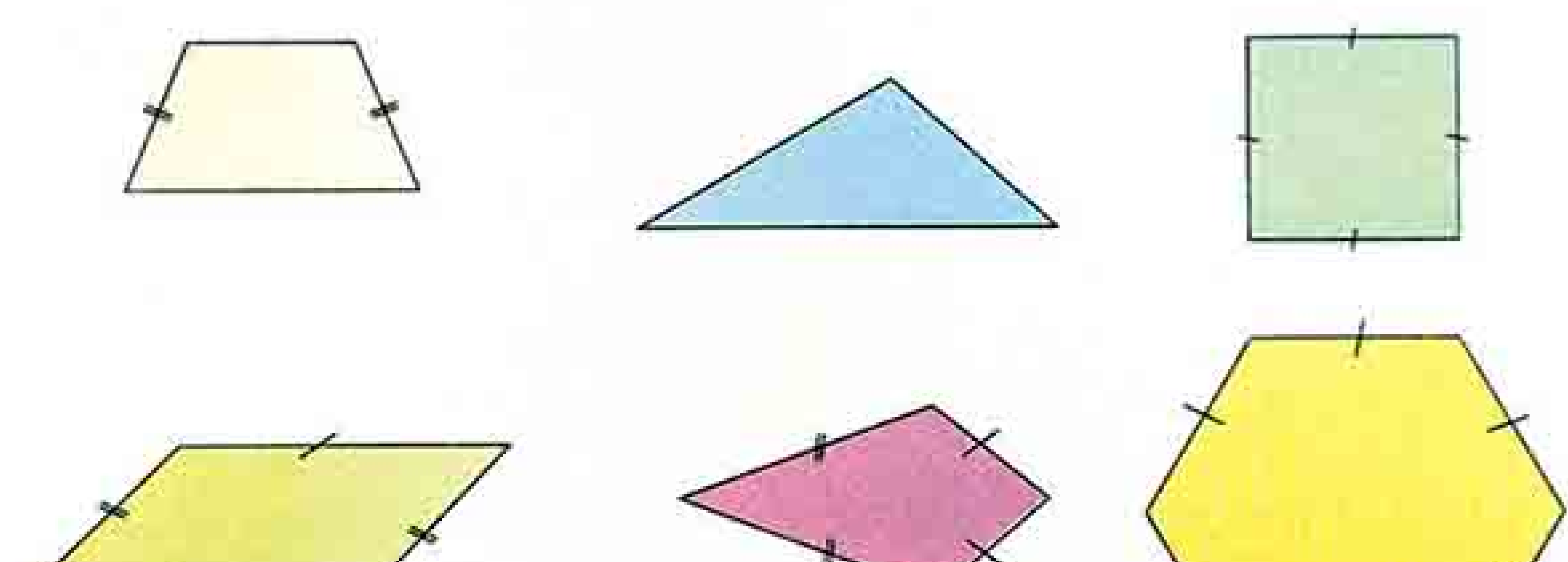
h) Two polygons are congruent if their corresponding sides are equal in length. (.............)

i) Two polygons are congruent if their corresponding angles are equal in measure. (.............)

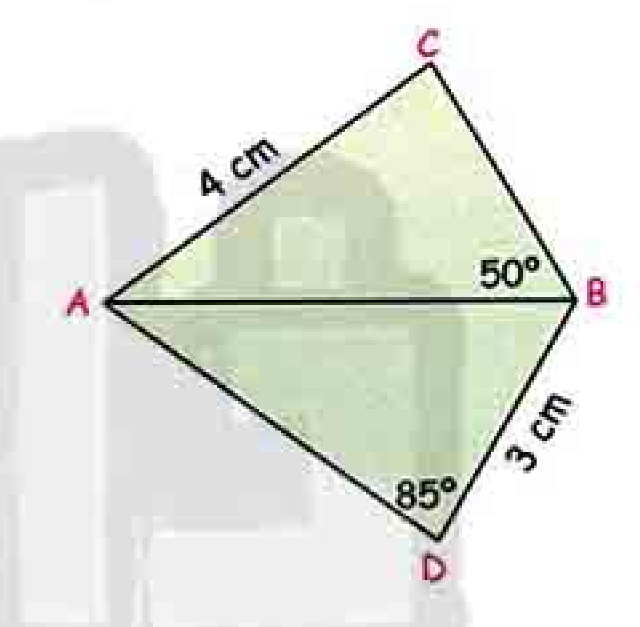


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11. Draw a line in each of the following figures to get two congruent figures if possible:



12. In the opposite figure:



If Δ ABC $\equiv$ Δ ABD, then

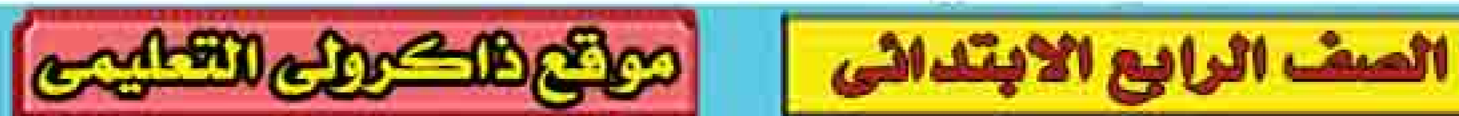
a) Find:

1) m ($\angle$C) **2)** m ($\angle$BAC)

b) Complete: AD = ... cm and BC = ... cm.

c) Find the perimeter of the figure ACBD.



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2
LESSON

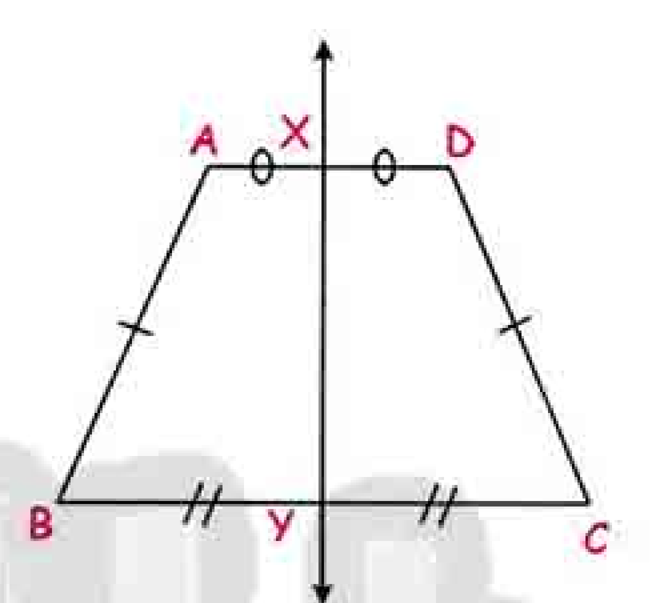
Symmetrical figures and lines of symmetry

Symmetrical figures:



The figure that can be folded around a line so that the two parts match exactly is called a symmetrical figure and that line is called "line of symmetry".

In the opposite figure:



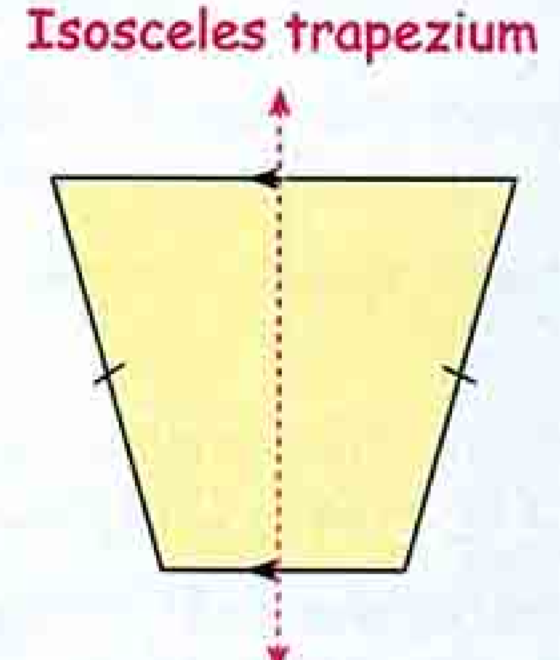
- $\overleftrightarrow{XY}$ represents a line of symmetry for the figure ABCD so, we say that the figure ABCD is a symmetrical figure.
- The right part XYCD of the figure ABCD is congruent with the left part XYBA.

Note that

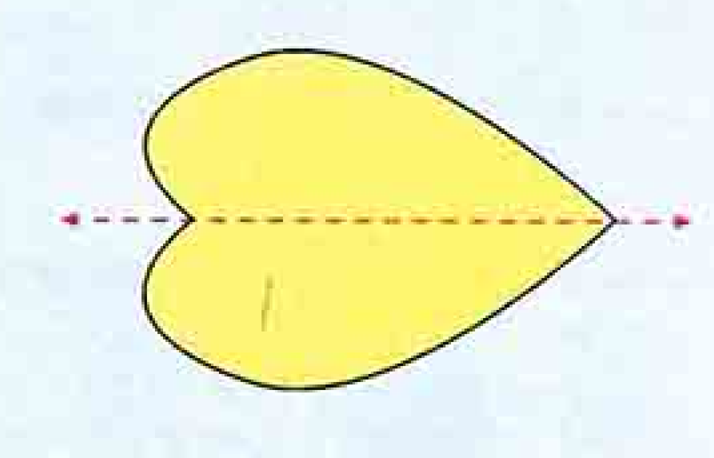
1. Some symmetrical figures have one line of symmetry as.

Isosceles triangle

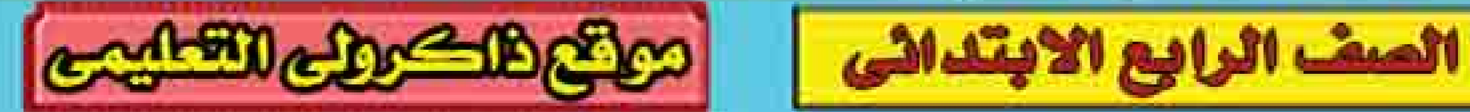
Isosceles trapezium



Heart

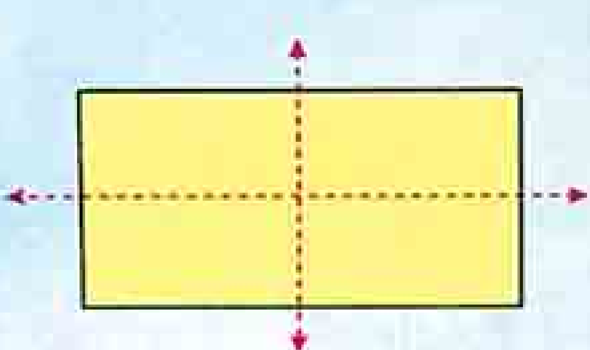


line of symmetry	محور التماثل	exactly	بالضبط	can be folded	يمكن طيها



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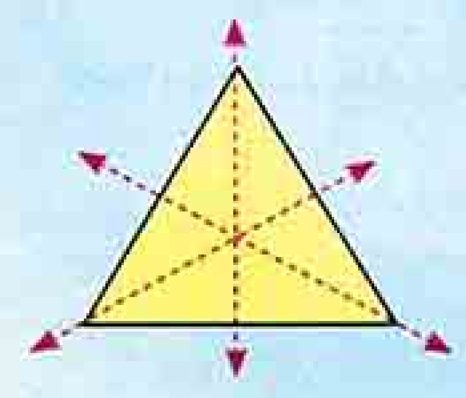
2 Some symmetrical figures have more than one line of symmetry as:

Rectangle



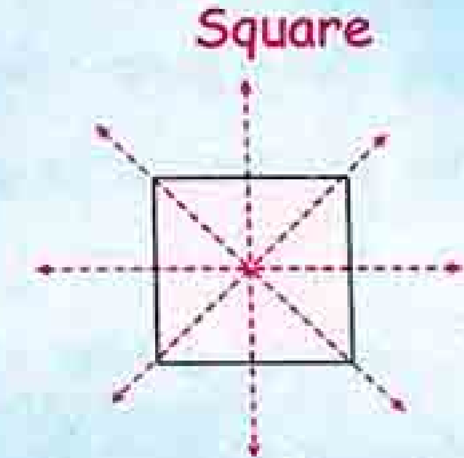
2 lines of symmetry

Equilateral triangle



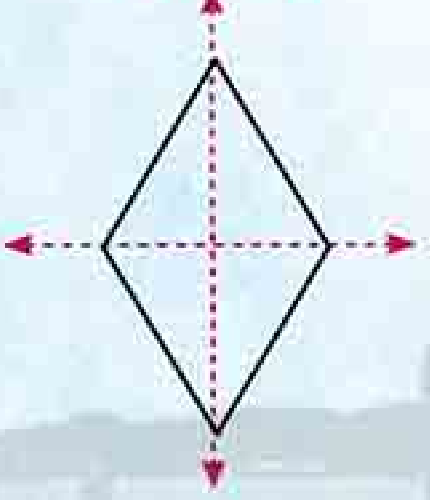
3 lines of symmetry

Square



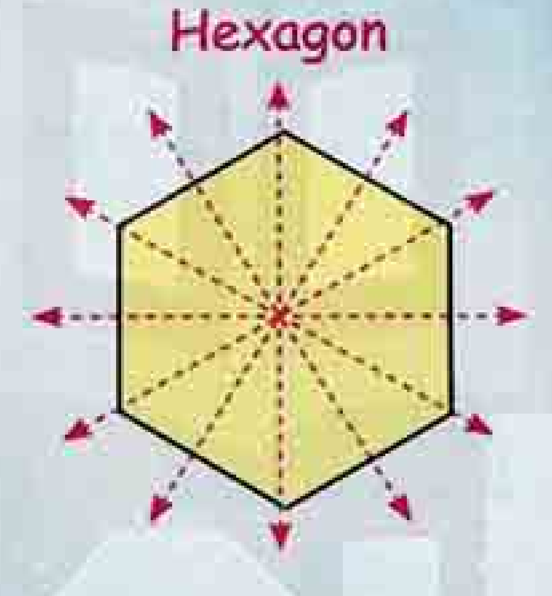
4 lines of symmetry

Rhombus



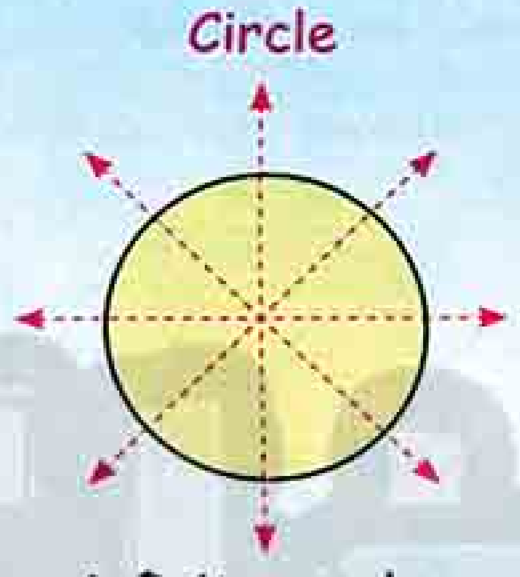
2 lines of symmetry

Hexagon



6 lines of symmetry

Circle



an infinite number of lines of symmetry

3 Some figures are not symmetrical (have no lines of symmetry).

Scalene triangle



0 lines of symmetry

Trapezium



0 lines of symmetry

Parallelogram



0 lines of symmetry

Note that

If there is a line which divides a figure into two congruent parts, it is not necessary to be a line of symmetry of this figure.

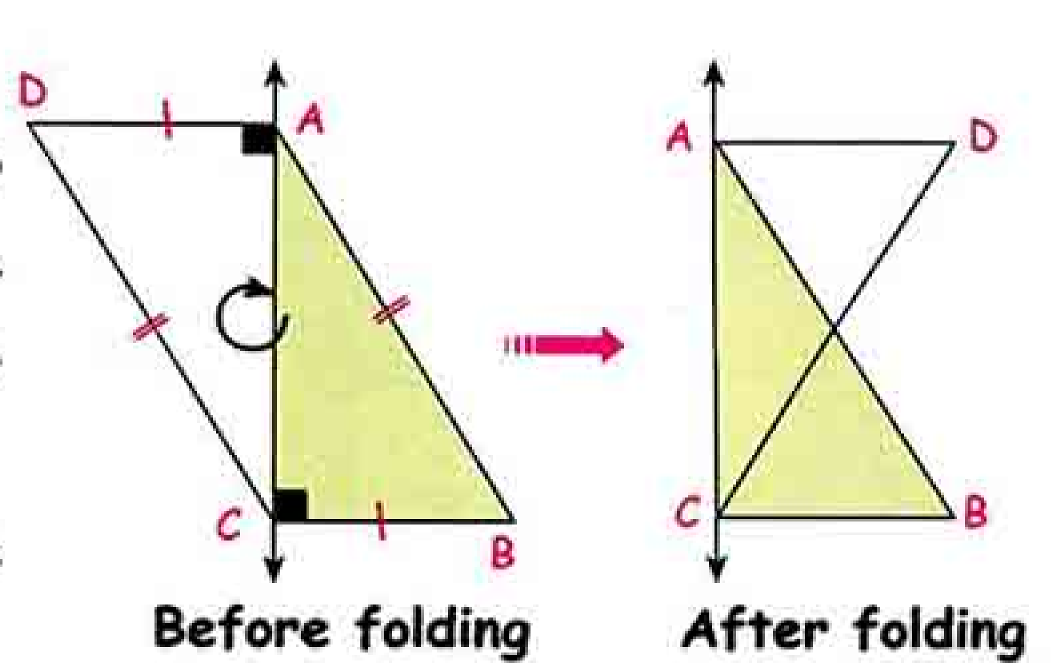
necessary ضرورى


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

For example:

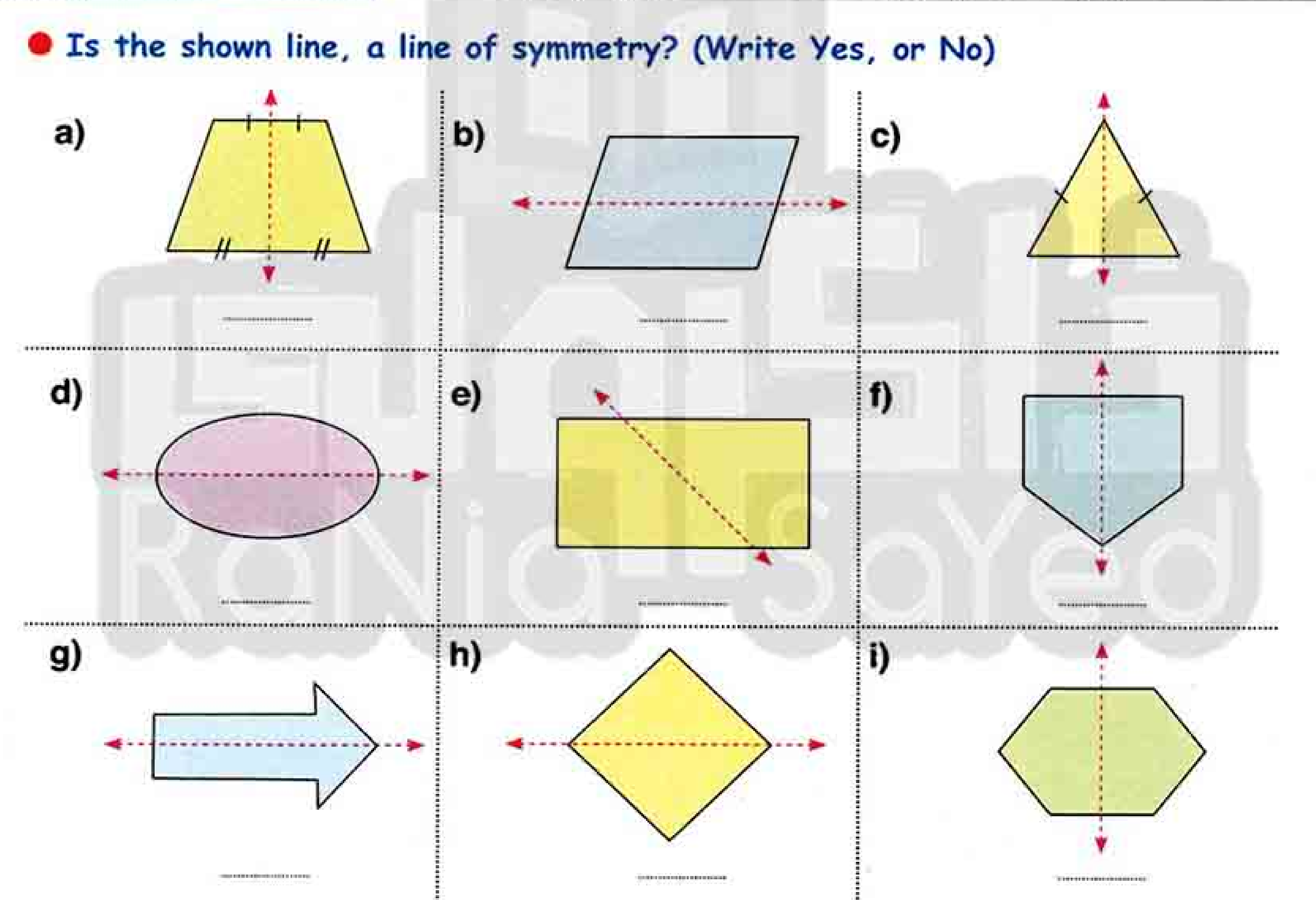
The line $\overleftrightarrow{AC}$ divides the parallelogram ABCD into two congruent triangles, but when we fold the parallelogram around $\overleftrightarrow{AC}$, the two triangles don't match.

So, $\overleftrightarrow{AC}$ is not a line of symmetry and the parallelogram is non-symmetrical figure.



Example 1

● Is the shown line, a line of symmetry? (Write Yes, or No)



▶ Solution

a) yes b) No c) yes d) yes e) No

f) yes g) yes h) yes i) yes

► folding الطى



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Example 2

● **Complete:**

a) The rectangle has .... line(s) of symmetry.

b) The square has .... line(s) of symmetry.

c) The isosceles triangle has .... line(s) of symmetry.

d) The isosceles trapezium has .... line(s) of symmetry.

e) The parallelogram has .... line(s) of symmetry.

f) The scalene triangle has .... line(s) of symmetry.

▶ Solution

a) 2 **b)** 4 **c)** 1 **d)** 1 **e)** 0 **f)** 0


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UNIT 2

Summary

The figure name	The figure	Number of lines of symmetry
Scalene triangle		0
Parallelogram		0
Trapezium		0
Isosceles triangle		1
Isosceles trapezium		1
Rhombus		2
Rectangle		2
Equilateral triangle		3
Square		4
Regular pentagon		5
Regular hexagon		6
Circle		An infinite number "very large number"

infinite number عدد لا نهائى

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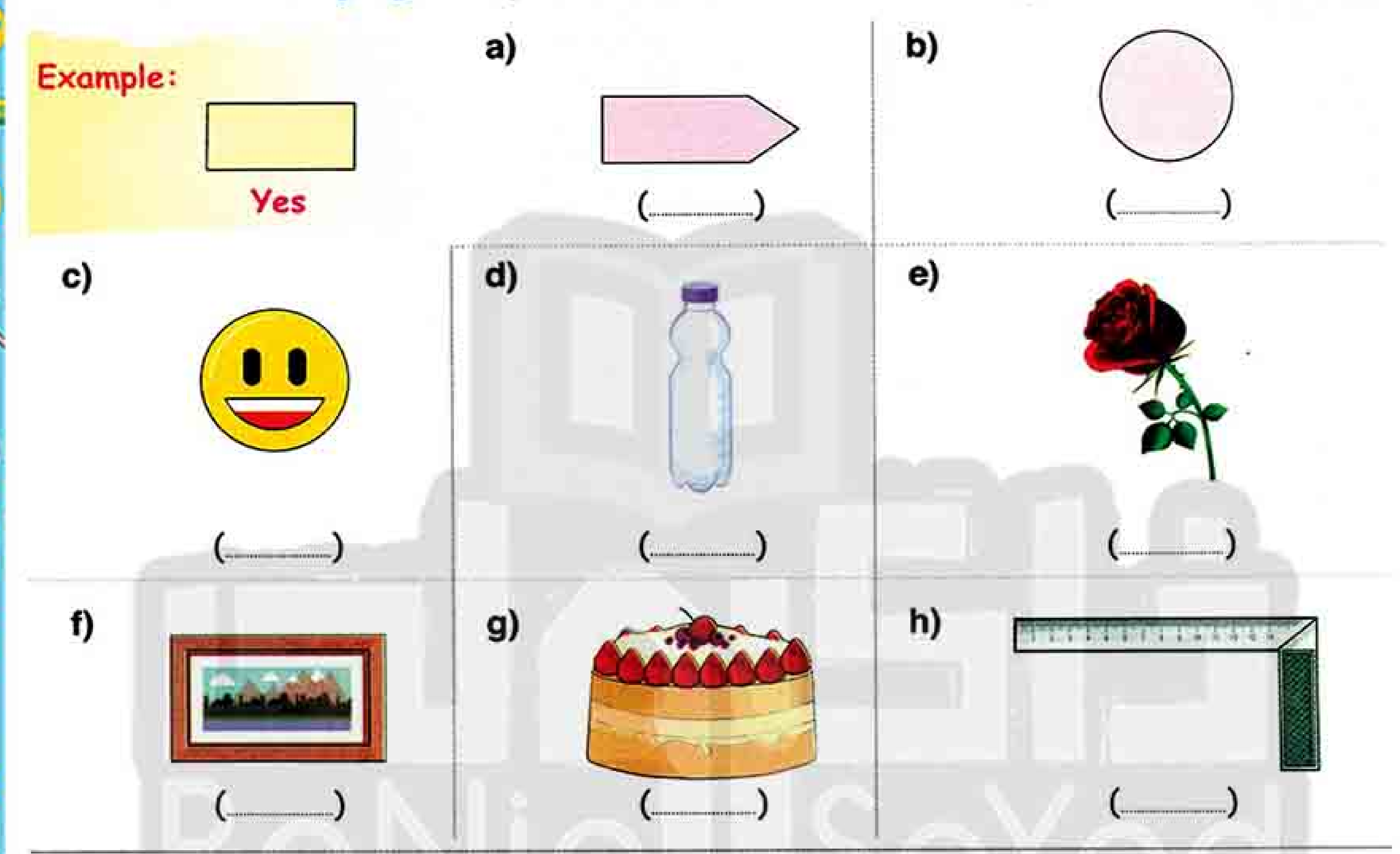



Solve Ex.

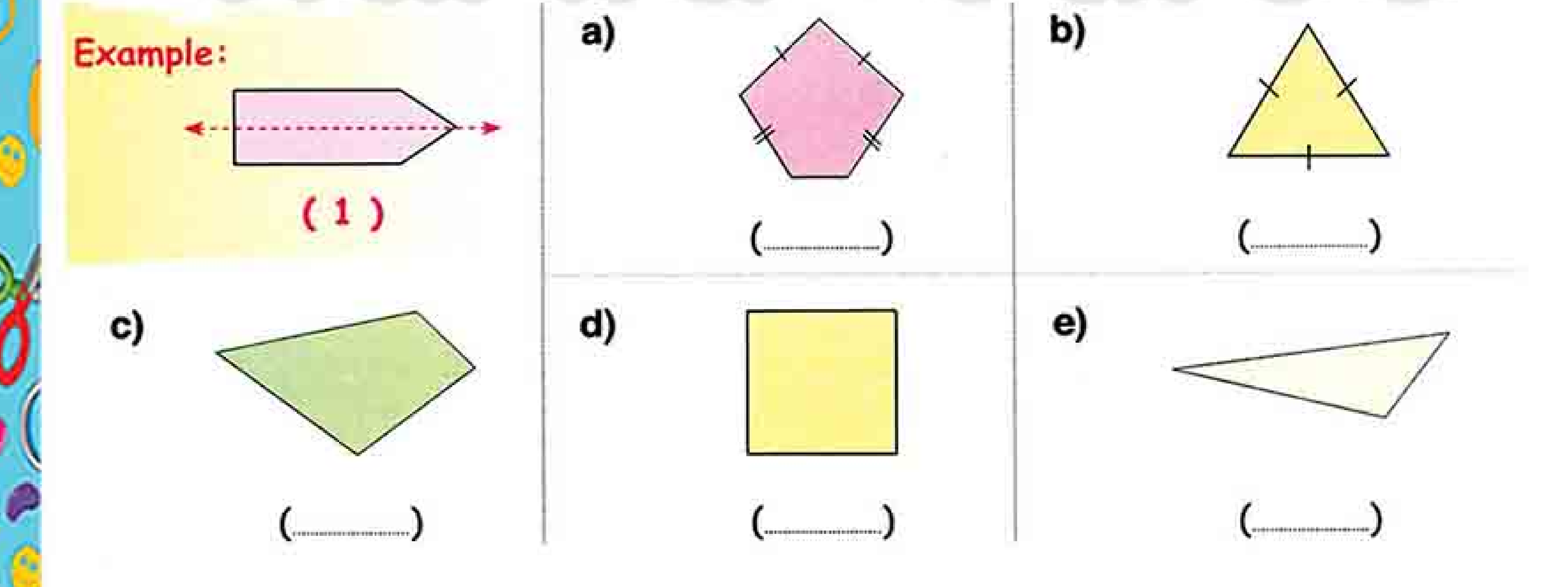
Exercise 2

Symmetrical figures and lines of symmetry

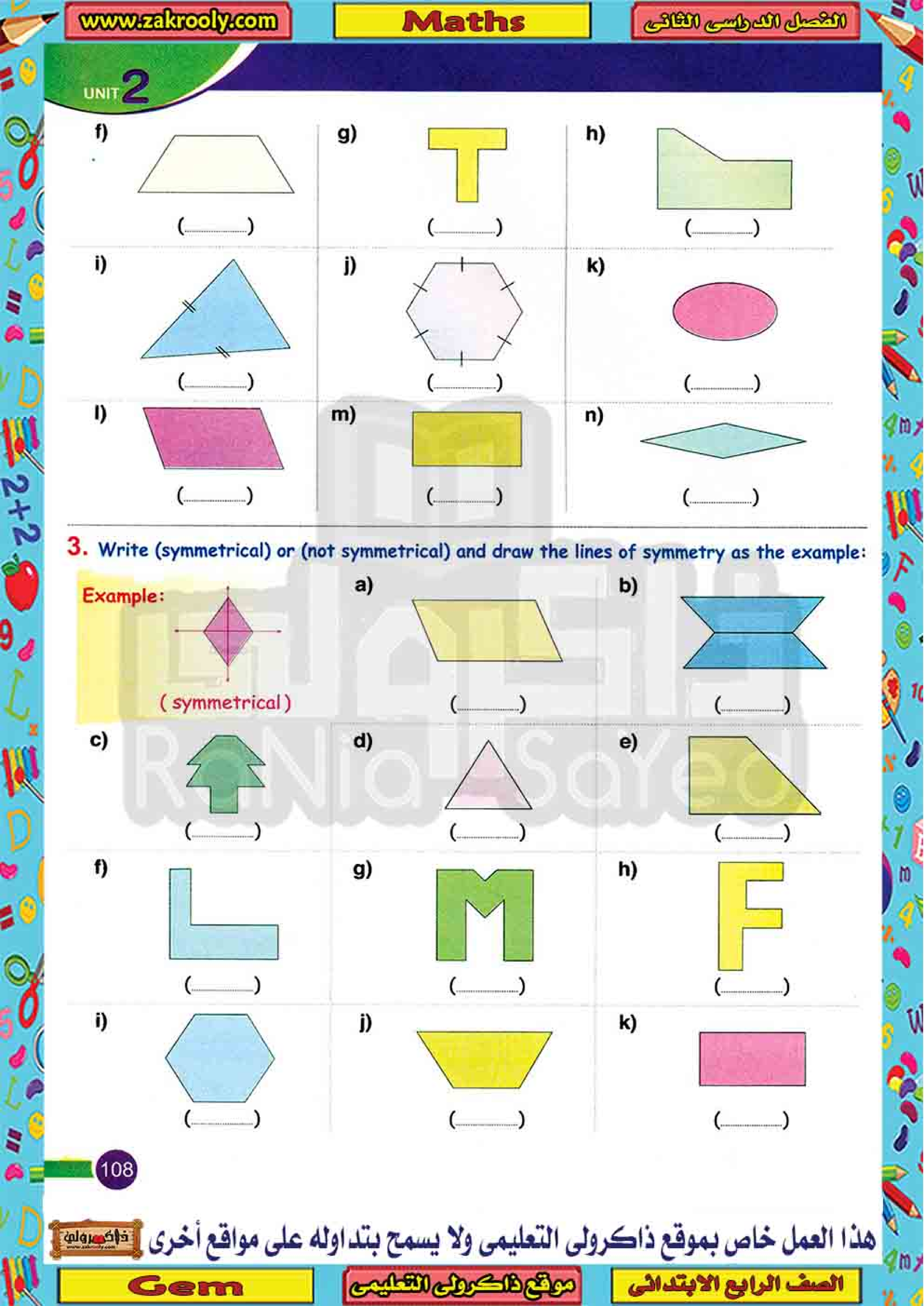
1. Are the following figures symmetrical or not? (as the example)



2. Write the number of lines of symmetry and draw them (if they exist) as in the example:




هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



f) (..........)

g) (..........)

h) (..........)

i) (..........)

j) (..........)

k) (..........)

l) (..........)

m) (..........)

n) (..........)

3. Write (symmetrical) or (not symmetrical) and draw the lines of symmetry as the example:

Example: (symmetrical)

a) (..........)

b) (..........)

c) (..........)

d) (..........)

e) (..........)

f) (..........)

g) (..........)

h) (..........)

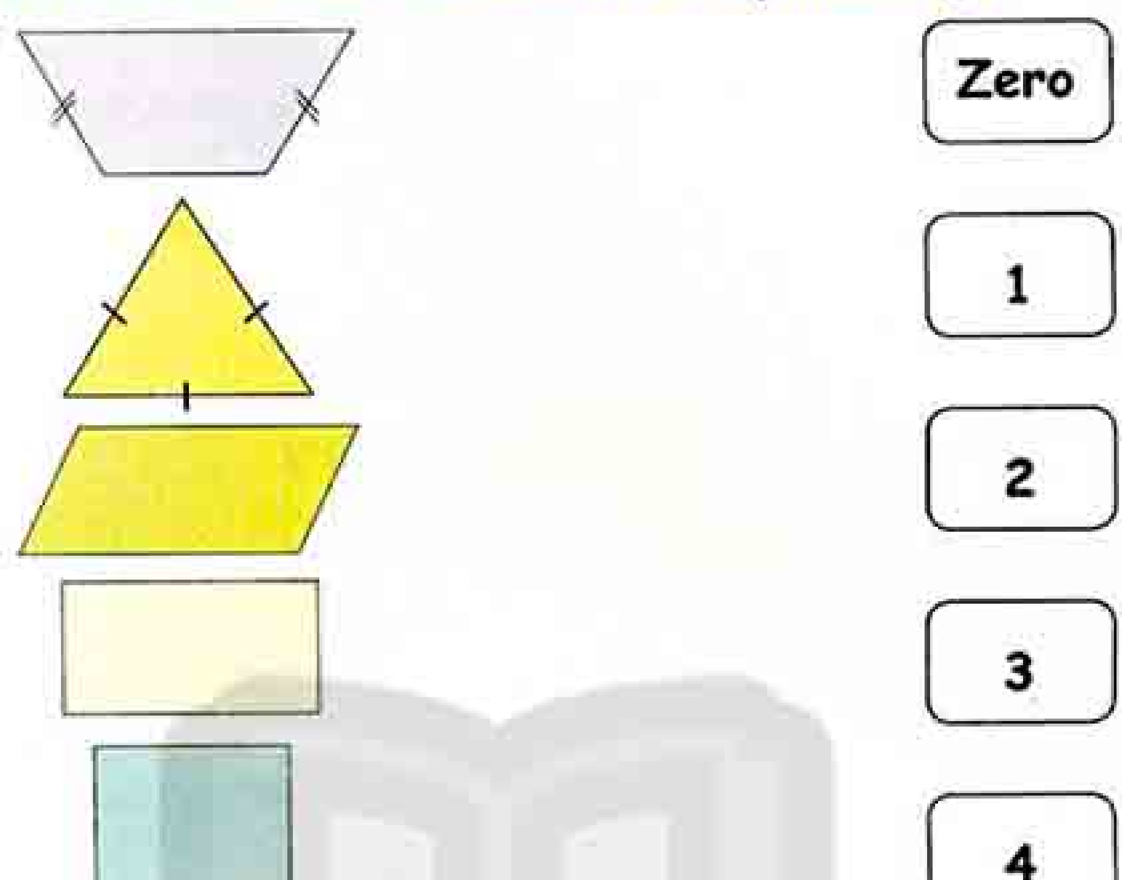
i) (..........)

j) (..........)

k) (..........)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

4. Join each figure to its number of lines of symmetry:



Zero
1
2
3
4

5. Draw the line(s) of symmetry of each of the following figures:


a)

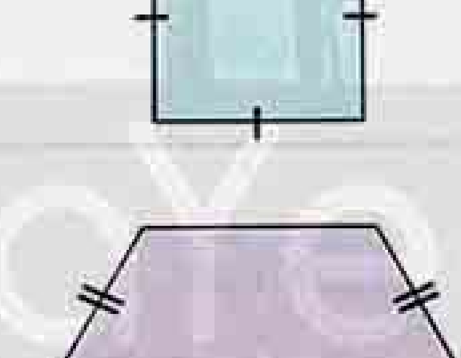

b)





c)


d)




e)


f)



6. Choose the correct answer:

a) The isosceles trapezium has .... line(s) of symmetry. (1 , 2 , 3 or 4)

b) The diagonal of rectangle divides it into two .... triangles. (equal, congruent, parallel or different)

c) The number of lines of symmetry of the rhombus is .... (1 , 2 , 3 or zero)

d) The square has .... line(s) of symmetry. (1 , 2 , 3 or 4)

e) The figure ▭ has .... line(s) of symmetry. (1 , 2 , 3 or 4)

f) The figure ⌓ has .... line(s) of symmetry. (zero , 1 , 2 or 3)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

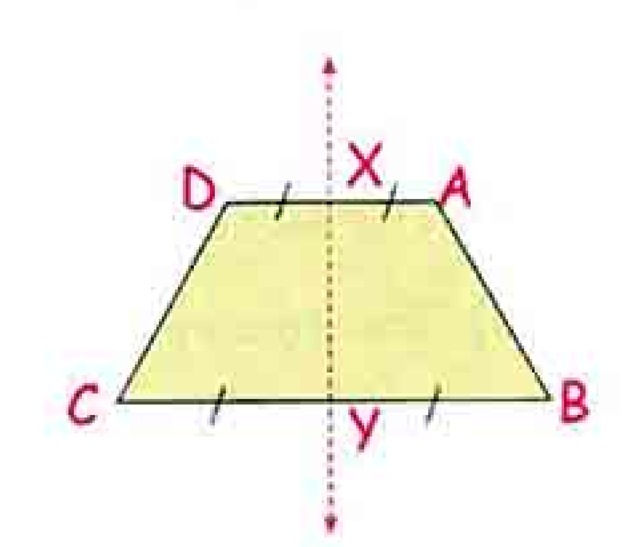
7. Put (✓) for the correct statement and (X) for the incorrect one:

a) The parallelogram has four lines of symmetry. (.........)
b) The rectangle has four lines of symmetry. (.........)
c) The scalene triangle has three lines of symmetry. (.........)
d) The isosceles trapezium has one line of symmetry. (.........)
e) The square has four lines of symmetry. (.........)
f) The rhombus has four lines of symmetry. (.........)
g) The circle has an infinite number of lines of symmetry. (.........)

8. Complete the following:

a) The equilateral triangle has .... line(s) of symmetry.
b) The square has .... line(s) of symmetry.
c) The rectangle has .... line(s) of symmetry.
d) The parallelogram has .... line(s) of symmetry.
e) The rhombus has .... line(s) of symmetry.
f) The regular hexagon has .... line(s) of symmetry.
g) The trapezium has .... line(s) of symmetry.
h) The regular pentagon has .... line(s) of symmetry.
i) The isosceles triangle has .... line(s) of symmetry.

9. Using the opposite figure, complete:



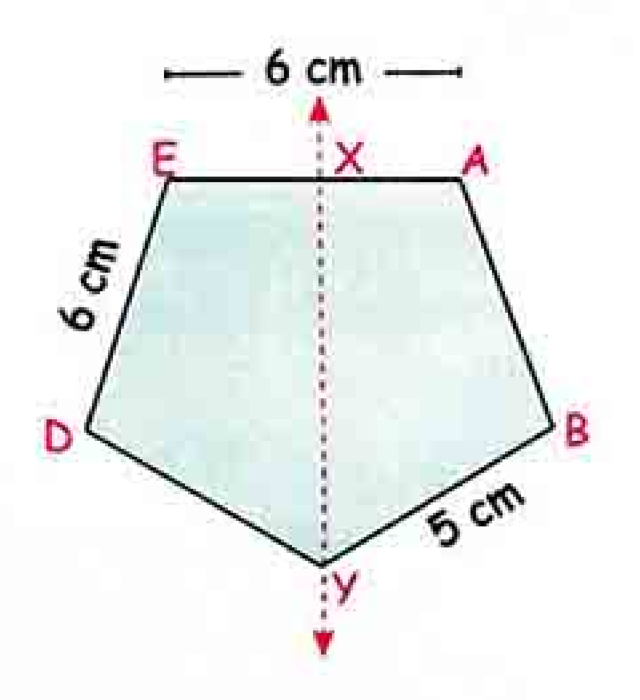
a) $\overleftrightarrow{XY}$ is a line of symmetry of the polygon ....
b) $\overline{XA} \equiv$ .... , $\overline{YB} \equiv$ ....
c) $\overline{AB} \equiv$ ....
d) The polygon ABYX ≡ ....


/aladwaa
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10. In the opposite figure:

If $\overleftrightarrow{XY}$ is a line of symmetry of the polygon ABYDE,

AE = 6 cm, DE = 6 cm and BY = 5 cm, then:



Complete:

a) $\angle B \equiv \angle$ ....

b) $\angle A \equiv \angle$ ....

c) DY = ... = ... cm

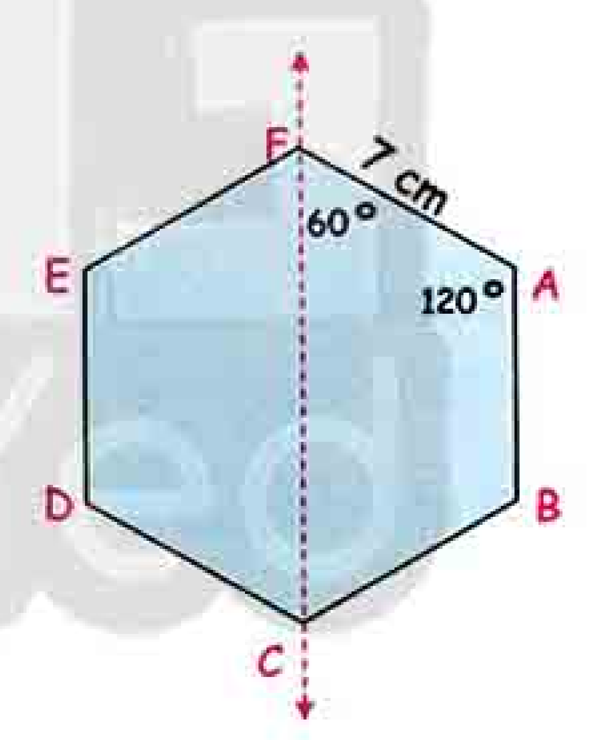
d) The perimeter of the figure ABYDE = ... cm

---

11. In the opposite figure:

If $\overleftrightarrow{CF}$ is a line of symmetry of the regular hexagon ABCDEF, then:

Complete:



a) AB = ... cm.

b) m ($\angle$E) = m ($\angle$ ....) = ...°

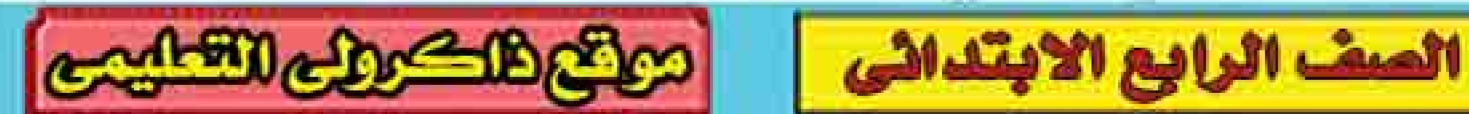
c) m ($\angle$CFE) = m ($\angle$ ....) = ...°

d) The perimeter of ABCDEF = ... cm.

e) The figure ABCF is called ....

f) The polygon ABCF ≡ the polygon ....





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3 LESSON Visual patterns

What is a pattern?



A pattern is a sequence of numbers or symbols or figures arranged according to a certain system or rule.

For example:

1. **1, 3, 5, 7, ...** **is a pattern.**
   Its rule is adding 2 to get the next number.
2. **abc , abc , abc .....** **is a pattern.**
   Its rule is repeating abc.

 .... is a pattern.

3. **Its rule is** repeating

Example 1

- Discover the pattern and then complete the next one:

a) , , ... **b)** , , ...

c) 10 , 20 , 30, ... **d)** 25 , 20 , 15, ...

▶ Solution

a) Repeating

b) Repeating

c) Adding 10 to get the next number, 40

d) Subtracting 5 to get the next number, 10

pattern	نمط	certain	محدد	according to	وفقًا لـ

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





Example 2

- Form four patterns of your own.

Solution

a) 4, 8, 12, ... the rule is adding 4 to get the next number.

b) 1, 4, 9, ... the rule is multiplying a number by itself, starting from 1.

i.e 1 × 1 , 2 × 2 , 3 × 3, ...

c) □ ○, □ ○, □ ○, ... the rule is repeating □ ○

d) □ □ △ □ □ △ □ □ △ .... the rule is repeating □ □ △

Example 3

1 Discover the rule and then complete:

a) 5.5, 6.6, 7.7, ..., ..., ...

b) $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$, ..., ..., ...

c) 1, 1, 2, 3, 5, ..., ..., ...

d) 10, 10.2, 10.4, ..., ..., ...

e) 10, 9.6, 9.2, ..., ..., ...

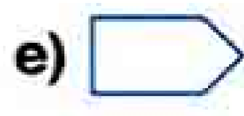
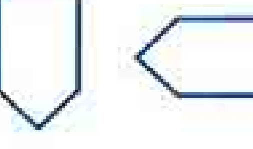
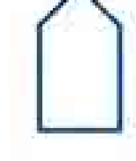
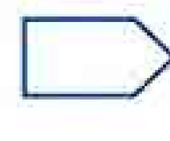
2 Discover the rule and then complete:

a)  ....

b) A AA AAA ....

c) A AB ABC ....

d) ☺ ☹ ☺ ☹ ....

e)     ....

Solution

1 a) 5.5, 6.6, 7.7, 8.8 , 9.9 , 11

b) $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}$

c) 1, 1, 2, 3, 5, 8 , 13 , 21

d) 10, 10.2, 10.4, 10.6 , 10.8, 11

e) 10, 9.6, 9.2, 8.8 , 8.4 , 8

2 a) ◪ ⊟ ◩ ◫   ◪

b) A AA AAA AAAA

c) A AB ABC ABCD

d) ☺ ☹ ☺ ☹ ☺

e) (pentagon arrows pattern continues with the first shape)

repeating تكرار

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Exercise 3

Visual patterns

Solve Ex.

1. Choose the correct figure to complete the pattern:

a) .... (or or or)

b) .... (or or or)

c) .... (or or or)

d) .... (or or or)

e) .... (or or or)

f) .... (or or or)

g) .... (or or or)

h) .... (or or or)

i) .... (or or or)

j) .... (or or or)

k) .... (or or or)

l) .... (or or or)

m) .... (or or or)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem
موقع ذاكرولى التعليمى
الصف الرابع الابتدائى

2. Complete in the same pattern:

a) □□○ □□○ □□○ ....
b) ♡☆♡☆♡☆ ....
c) 1 , 1.1 , 1.2 , 1.3 , ...
d) $\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{12}$, $\frac{1}{24}$, ...
e) ....
f) ....
g) + − − + − − + − − ....
h) × ÷ × ÷ × ÷ ....
i) 2.2 , 3.3 , 4.4 , ...
j) ....

3. Complete in the same pattern:

a) 6.66 , 5.55 , 4.44 , ... , ...
b) 15 , 15.2 , 15.4 , ... , ...
c) ab , abb , ab bb , ab bbb , ... , ...
d) 11 , 11.5 , 12 , ... , ...
e) ab , abc , abcd , ... , ...
f) 12.3 , 23.4 , 34.5 , ... , ...
g) +x , +xx , +xxx , +x , ... , ...
h) 10 , 9.6 , 9.2 , 8.8 , ... , ...

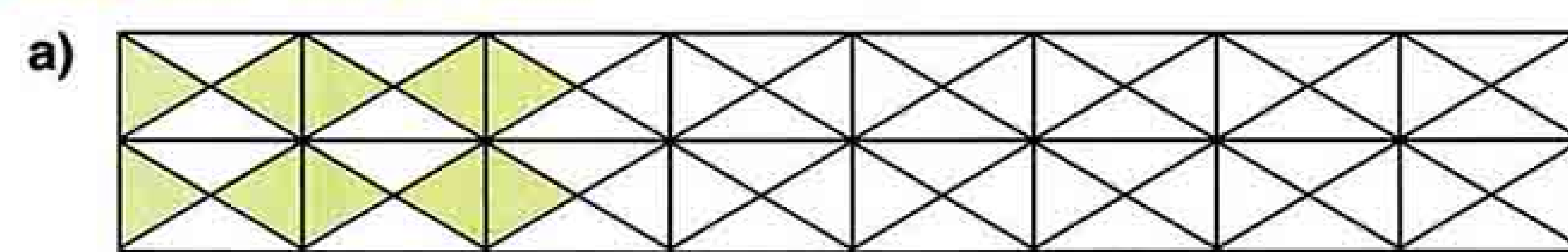
4. Discover the rule and complete:

a) ○▭ ○▭ ○▭ .... The rule is: ....
b) .... The rule is: ....
c) .... The rule is: ....
d) $\frac{1}{3}$, $\frac{1}{9}$, $\frac{1}{27}$ .... The rule is: ....
e) 100 , 99.5, 99, 98.5 .... The rule is: ....

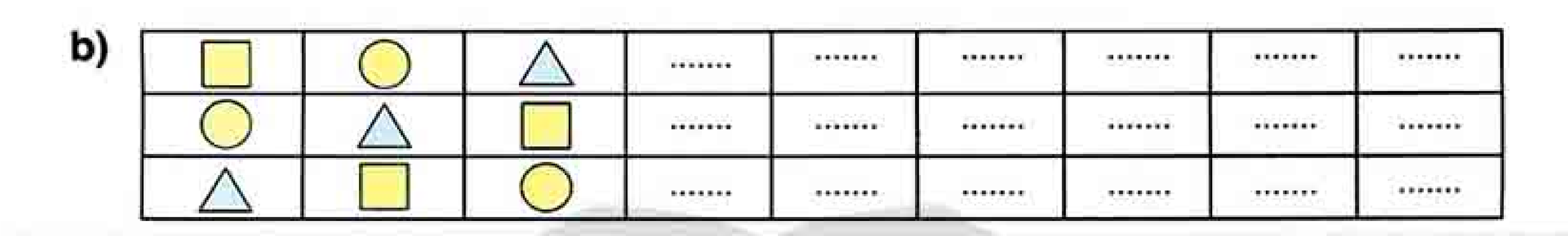
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5. Complete the patterns:

a)

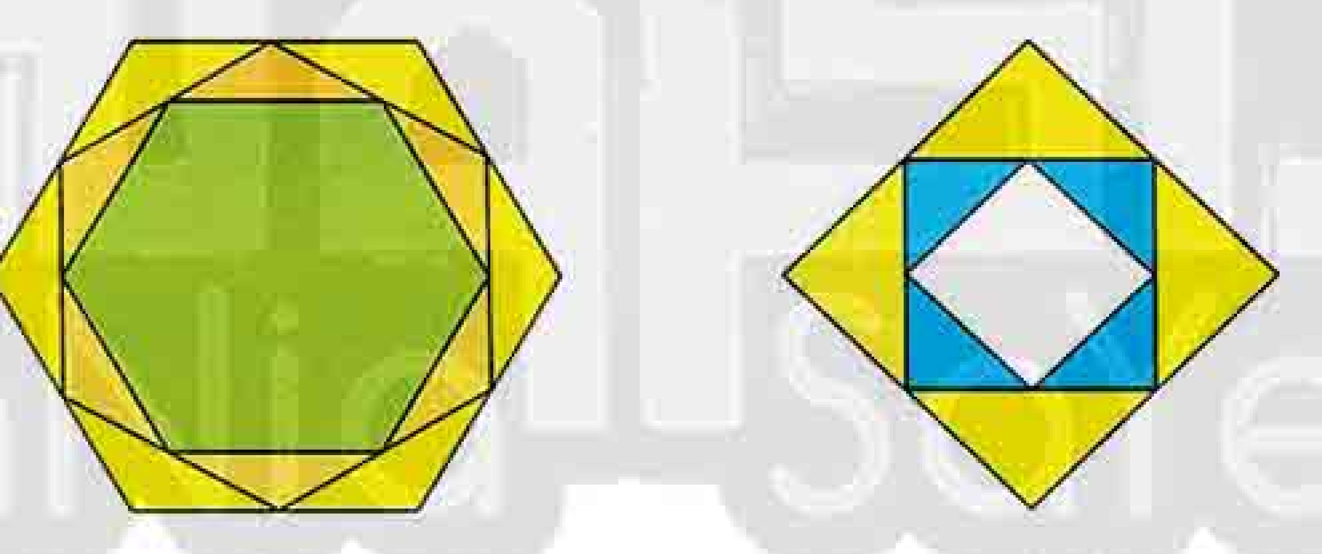


b)

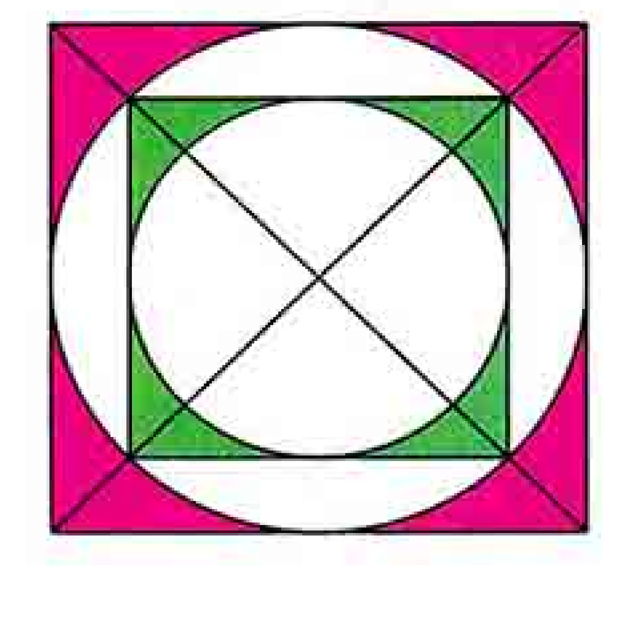


c)

6. In each of the following figures, discover the pattern and then complete by drawing one figure that follows the same pattern.



7. Discover the pattern, then draw two figures and complete colouring according to the pattern.



discover اكتشف

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General Exercises on Unit 2

1. Choose the correct answer from those between brackets:

a) The number of lines of symmetry of the rectangle = ... (zero , 4 , 2 or 3)

b) The number of lines of symmetry of an isosceles triangle is .... (1 , 2 , 3 or 4)

c) There are .... line(s) of symmetry in the square. (four , three , two or one)

d) The number of lines of symmetry of the rhombus is ....

(four , three , two or one)

e) The isosceles trapezium has .... line(s) of symmetry. (3 , 2 , 1 or 4)

2. Put the suitable sign (< , > or =):

a) The no. of lines of symmetry in the square ☐ the no. of lines of symmetry in the rectangle.

b) The no. of lines of symmetry in the square ☐ the no. of lines of symmetry in the rhombus.

3. Complete each of the following:

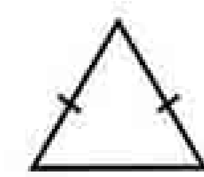
a) The two squares are congruent if the side length of one of them = ...

b) Two polygons are congruent if their corresponding sides are ....

c) The number of lines of symmetry of an equilateral triangle = ...

d) The rhombus is a .... figure whose sides are ....

e) The number of lines of symmetry of the opposite figure is ....



f) There are .... line(s) of symmetry in the square.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

4. Put (✓) or (✗):

a) It is possible for an acute-angled triangle to be congruent to a right-angled one. (   )

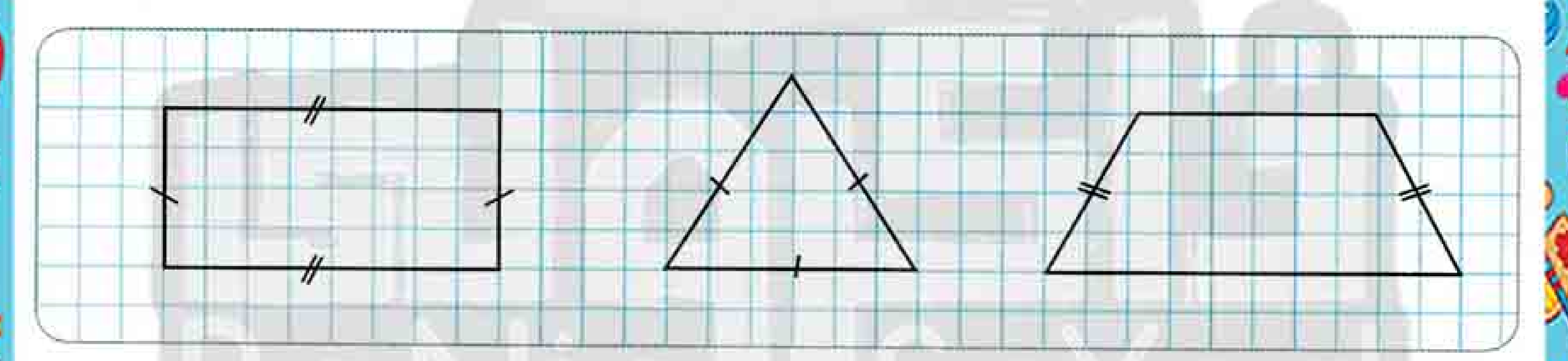
b) The parallelogram has four lines of symmetry. (   )

c) Two polygons are said to be congruent if only their corresponding sides are equal in length. (   )

d) The square has 4 lines of symmetry. (   )

e) The rectangle has four lines of symmetry. (   )

5. Draw the lines of symmetry of each of the following shapes:





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Basic Cumulative Skills on Unit (2) (TIMSS)

First Choose the correct answer from those between brackets:

1. The area of the opposite shape = ... □

a) 6 b) 8 c) 4 d) 15

2. In the opposite figure the number of congruent triangles = ...

a) 3 b) 5 c) 6 d) 7

3. The area of the opposite shape = ... ◿

a) 7 b) 8 c) 9 d) 10

4. The surface area of a square with side length 6 cm =........

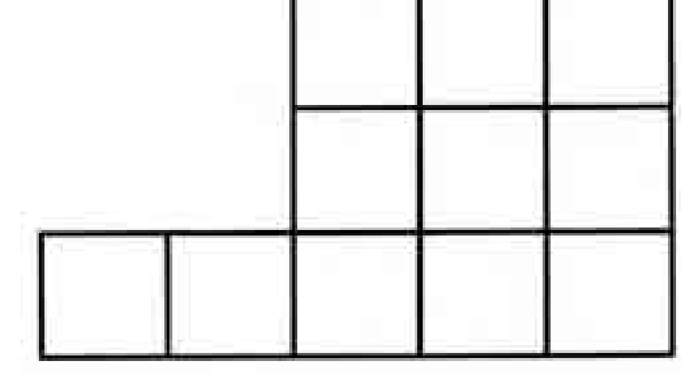
a) 12 cm b) 36 cm c) 36 cm^2 d) 12 cm^2

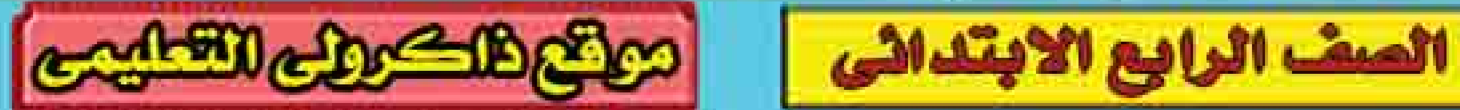
Second Complete each of the following:

5. The perimeter of a square of side length 1cm = ...
6. If the perimeter of a square 28 cm, then its side length = ...
7. The perimeter if the equilateral triangle of side length 7 cm = ...

Thrird Answer the following:

8. Find the perimeter and the surface area of rectangle with dimensions 4 cm and 6 cm.
9. Find the perimeter of the following shape if the unit of length is the side length of the small square.





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UNIT TEST



1 Choose the correct answer from the given ones:

1. The rectangle has .... lines of symmetry.

   a) 2 b) 4 c) 6 d) 8

2. The square has .... lines of symmetry.

   a) zero b) 2 c) 4 d) 3

3. If △ MNL ≡ △ PQR, then $\overline{ML}$ ≡ ....

   a) $\overline{MN}$ b) $\overline{PQ}$ c) $\overline{GR}$ d) $\overline{PR}$

4. The number of lines of symmetry of the equilateral triangle is ....

   a) zero b) 1 c) 2 d) 3

5. In a rectangle, the diagonal divides it in two .... triangles.

   a) congruent b) different c) equilateral d) isosceles

6. A square of side length 7 cm is congruent to ....

   a) a rectangle of dimensions 7 cm and 5 cm.

   b) an isosceles △ whose sides lengths are 7 cm, 7 cm and 5 cm.

   c) a square of side length 7 cm

   d) a rhombus of side length 7 cm

7. The number of lines of symmetry of the rhombus is ....

   a) 1 b) 2 c) 3 d) 4

8. The number of lines of symmetry of the isosceles triangle is ....

   a) 1 b) 2 c) 3 d) 4

2 Complete each of the following:

9. Two rectangles are congruent if ....

10. Two polygons are congruent if their corresponding sides are .... in length and their corresponding .... are equal in measure.

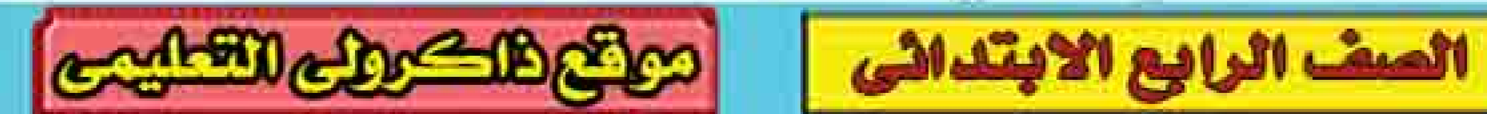
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Unit 3 Measurement



Lessons of the Unit

تفوقك في أي عمل عليه العلامة دي ذاكرولي

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

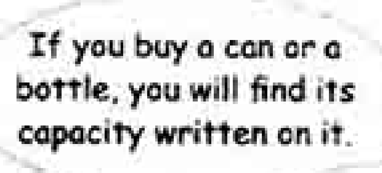


Capacity

Capacity:

It is the amount that a container can hold.








A tank of water of capacity 50 liters


A bottle of juice of capacity 2 liters


bottle of mineral water of capacity 1 liter

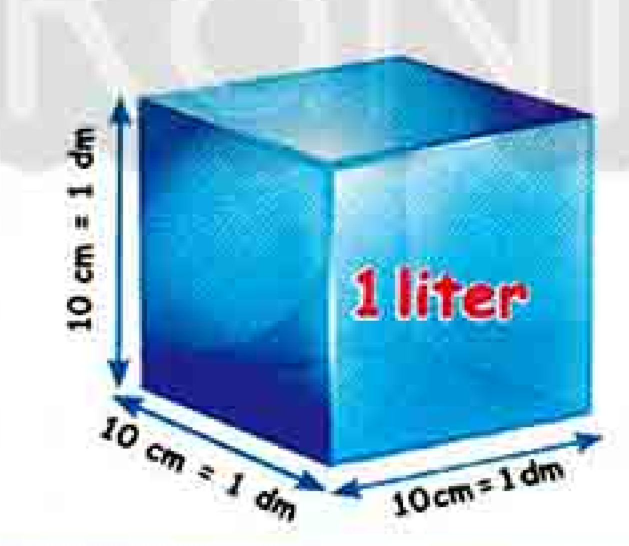

A bottle of medicine of capacity $\frac{1}{2}$ liter

syringe of capacity 4 milliliters

We use the liter (L) and milliliter (mL) to measure capacity.

1 The liter (L):

It is the capacity of a cube-shaped container of side length 10 cm (1 dm)



- 1 L = 1000 centimeters³ (cm³)

or

- 1 L = 1 decimeter³ (dm³)

2 The milliliter (mL):

It is the capacity of a cube-shaped container of side length 1 cm



- 1 mL = 1 centimeter³ (cm³)

capacity	السعة (الحجم الداخلى)	can	عبوة	container	وعاء


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

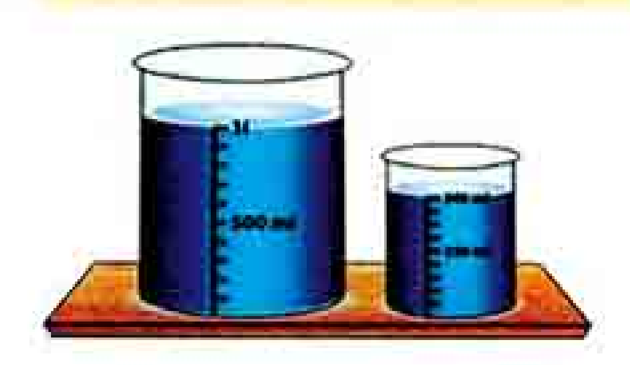
UNIT 3

The relation between the units of measuring capacity:

- 1 liter = 1000 milliliters

Symbolically

- 1 L = 1000 mL

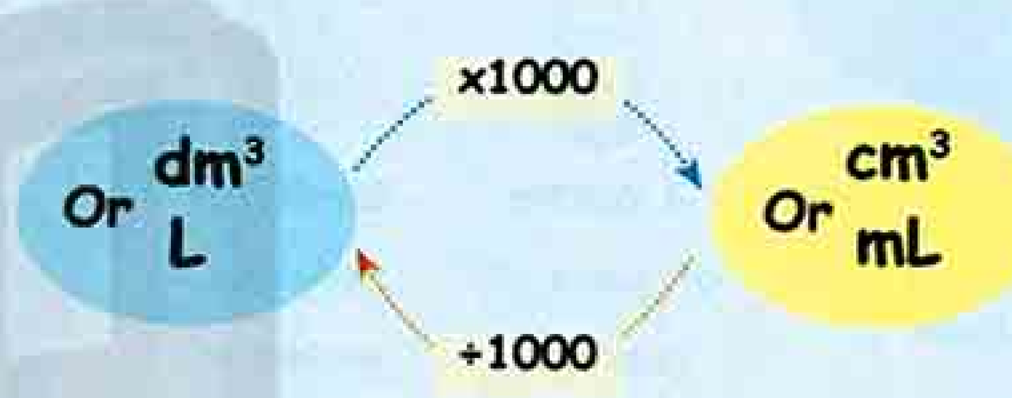


So, $\frac{1}{2}$ L = 500 mL, $\frac{1}{4}$ L = 250 mL, $\frac{3}{4}$ L = 750 mL

Note that

To convert from liter to milliliter you multiply by 1000

To convert from milliliter to liter you divide by 1000



Example 1

Complete:

a) 3 liters = ... mL b) 4.5 liters = ... mL c) 1.25 liters = ... mL

d) 7000 mL = ... L e) 5500 mL = ... L f) 8750 mL = ... L

Solution

a) 3 × 1000 = 3000 mL b) 4.5 × 1000 = 4500 mL

c) 1.25 × 1000 = 1250 mL d) 7000 ÷ 1000 = 7 L

e) 5500 ÷ 1000 = 5.5 L f) 8750 ÷ 1000 = 8.75 L

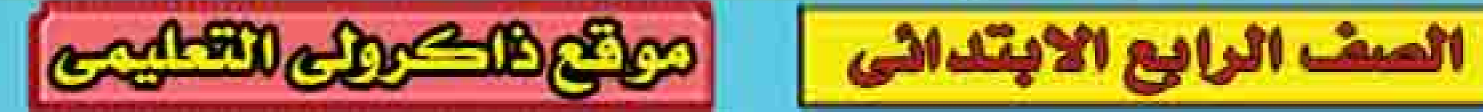
Try to solve

Complete each of the following:

a) 9 liters = ... mL b) 6750 mL= .... liters



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Example 2

Choose the suitable answer:

a) Basem bought a bottle of water of capacity .... (1 liter, 50 liters or 100 mL)

b) We have a water tank on the top of our building of capacity .... (500 mL , 5 liters or 500 liters)

c) I used about .... of water for bathing today. (80 liters , 15 liters or $\frac{1}{2}$ liter)

d) An ampoule of medicine is of capacity .... ($\frac{1}{2}$ liter , 150 mL or 5 mL)

▶ Solution

a) 1 liter **b)** 500 liters **c)** 15 liters **d)** 5 mL

Example 3

Put the suitable sign (< , = or >):

a) $\frac{1}{5}$ liter .... 250 mL

b) 0.175 L .... 0.75 dm^3

c) $\frac{1}{2}$ L .... 500 cm^3

d) 1.8 dm^3 .... 18000 mL

e) $\frac{3}{4}$ dm^3 .... 750 mL

f) 1.5 L .... 1.5 dm^3

▶ Solution

a) < **b)** < **c)** = **d)** < **e)** = **f)** =

Example 4

Arrange the following capacities ascendingly:

a) 750 mL, 1.5 L , $\frac{1}{2}$ L, 250 mL , 75 cm^3

b) 25 dm^3, 15 L , 3500 mL, 17.5 L , 20 dm^3

▶ Solution

a) because 1.5 L = 1500 mL , $\frac{1}{2}$ L = 500 mL , 75 cm^3 = 75 mL

The order is: 75 cm^3 , 250 mL , $\frac{1}{2}$ L , 750 mL and 1.5 L

b) 25 dm^3 = 25 L , 3500 mL = 3.5 L , 20 dm^3 = 20 L

The order is: 3500 mL , 15 L , 17.5 L , 20 dm^3 and 25 dm^3

tank	خزان
an ampoule of medicine	أمبولة (وعاء زجاجى) دواء

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى


Solve Ex.

Exercise 1

Capacity

1. Arrange the following objects ascendingly according to the capacity of each one: as the example:

Example:

(1) (3) (2)

a)

b)

c)

d)


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. Choose the nearest capacity for each of the following from that between brackets:

a)



A cub of coffee
($\frac{1}{4}$ liter or $\frac{1}{8}$ liter)

b)



A tea kettle
(1 liter or 15 liters)

c)



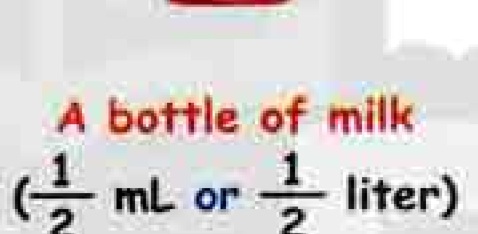
A spoon
(2 mL or 20 liters)

d)

A juice can
($\frac{1}{4}$ mL or 1 liter)

e)





A bottle of milk
($\frac{1}{2}$ mL or $\frac{1}{2}$ liter)

f)





A bathtub
(150 liters or 3 liters)

g)



A glass of tea
(200 liters or 200 mL)

h)



An aquarium
(20 mL or 8 liters)

i)



A waterless
(8 mL or 8 liters)

3. Choose the suitable unit for measuring the capacity of each of the following:

a) The capacity of a bottle of medicine
- L
- mL
- 6 cm

b) The capacity of a cup of coffee ....
- L
- ml
- Km

c) The capacity of a water tank ....
- L
- mL
- m

d) The capacity of a bucket of water ....
- L
- ml
- dm

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

4. Choose the correct answer:

a) The capacity of a glass of water .... (3 liters , 25 mL or 250 mL)

b) The average water consumption for a person in one day is ....

(15 liters , 1500 liters or 1500 milliliters)

c) The amount of milk used daily by a family of four persons is ....

(50 liters , 500 liters or 2000 milliliters)

d) The liter is the capacity of a vessel in the shape of a cube with edge length = ... cm.

(1 cm , 10 cm or 100 cm)

---

5. Complete:

1) 8 liters = ... mL.

2) 6.5 liters = ... mL.

3) 4.25 liters = ... mL.

4) 37.5 dm^3 = ... cm^3

5) 0.750 dm^3 = ... cm^3.

6) 1.125 dm^3 = ... cm^3.

7) 4000 mL = ... liter(s).

8) 3470 mL = ... liter(s).

9) 9275 cm^3 = ... dm^3.

10) 132500 cm^3 = ... dm^3.

11) 7000 mL = ... L.

12) 20 mL= .... L.

13) 20 liters = ... milliliters.

14) $7\frac{1}{2}$ liters = ... milliliters.

15) 20 mL = ... L.

16) 1 mL = ... L.

17) The unit of measuring capacity is ....

18) 2 liters, 3000 mL = ... mL.

19) 3 liters, 250 mL = ... mL.

20) 2.5 dm^3, 500 cm^3 = ... mL.

21) $8\frac{1}{2}$ liters, 500 cm^3 = ... dm^3.

22) 8750 cm^3, $\frac{1}{4}$ liter = ... dm^3.

23) .... liters, $\frac{1}{2}$ dm^3 = 3500 cm^3.

average	متوسط	consumption	استهلاك

ذاكرولي
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

6. Put the suitable sign (< , = or >):

a) $\frac{1}{4}$ liter .... 245 mL
b) 0.875 liters .... 875 mL
c) 750 mL .... $\frac{3}{4}$ liter
d) 1.4 liters .... 140 cm^3
e) 3500 cm^3 .... 3.5 dm^3
f) 18 dm^3 .... 1800 cm^3
g) 3000 mL .... 30 liters
h) 500 mL .... $\frac{1}{3}$ liters

---

7. Which is greater in capacity?

a) A water tank of capacity 50 liters or another one of capacity 48000 mL.

b) An aquarium of capacity 2500 mL or another one of capacity 25L.

---

8. Arrange in ascending order:

a) 9750 mL , 10 liters , 7000 mL and 12 $\frac{1}{2}$ liters.

b) $\frac{1}{2}$ liter , 450 cm^3 , 1750 mL and 2 cm^3.

c) 6000 mL , 5 dm^3 , 4500 cm^3 and 3 $\frac{3}{4}$ liters.

---

9. Arrange in descending order:

a) 8.75 liters , 9000 mL , 6500 mL and 5 liters.

b) 350 mL, 2L , 1250 mL and $\frac{3}{4}$ liter.

c) 9 liters , 9500 mL , 7500 cm^3 and 8.9 liters.

لا تنس الاشتراك في
قنوات ذاكرولي
على تطبيق التليجرام

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى



Weight

Introduction:

We deal with weights in our life. To weigh some goods such as meat, sugar, fruits and vegetables, we use different scales.







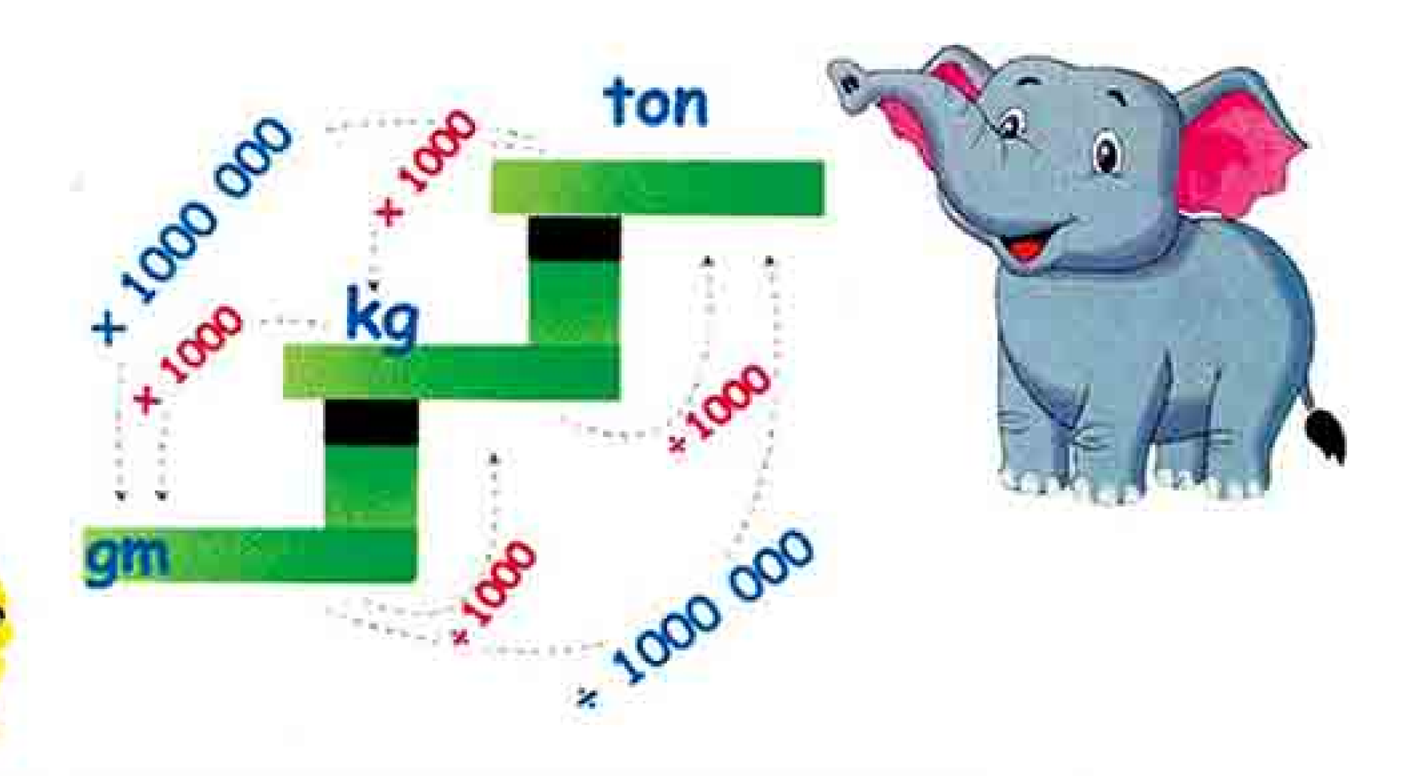
What are the units of measuring weight?

1. **The gram:** is used for measuring small objects as jewellery.
2. **The kilogram:** is used for measuring meat, sugar, vegetables, etc.
3. **The ton:** is used for measuring very heavy objects like cars and iron for building houses.

- **1 kilogram = 1000 grams (gm)**
- **1 ton = 1000 kilograms (kg)**

Converting units of weights:





deal with يتعامل مع	jewellery مجوهرات	iron حديد

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





Example 1

- Choose the suitable unit of weight:

a) Buying a present from a jewellery shop .... (20 gm or 1 kg or 0.1 ton)

b) The weight of a truck .... (2 tons or 50 kg or $\frac{1}{2}$ ton)

c) The weight of my brother .... (50 kg or 500 gm or $\frac{1}{2}$ ton)

d) The weight of a pencil .... (30 gm or 5 kg or $\frac{1}{4}$ ton)

Solution

a) 20 gm b) 2 tons c) 50 kg d) 30 gm

RaNia SaYed

Example 2



- Complete the following:

a) 75 400 kg = ... tons

b) 247 000 gm = ... kg

c) 21.5 ton = ... kg

d) 25.3 kg = ... gm

Solution

a) 75 400 ÷ 1 000 = 75.4 tons

b) 247 000 ÷ 1 000 = 247 kg

c) 21.5 × 1 000 = 21 500 kg

d) 25.3 × 1 000 = 25 300 gm

present هدية	truck شاحنة

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

UNIT 3

Example 3

- Arrange the following weights ascendingly:

3 500 kg, 35 tons and 35 000 gm



▶ Solution

35 tons = 35 × 1 000 = 35 000 kg

35 000 gm = 35 000 ÷ 1 000 = 35 kg

The order is: 35 kg , 3 500 kg , 35 000 kg

↓ ↓ ↓

i.e **The order is:** 35 000 gm , 3 500 kg , 35 tons

Remember that

1. 1 ton = 1000 kg
2. $\frac{1}{2}$ ton = 500 kg
3. $\frac{1}{4}$ ton = 250 kg
4. $\frac{3}{4}$ ton = 750 kg
5. $\frac{1}{8}$ ton = 125 kg
6. 1 kg = 0.001 ton
7. 1 ton = 1000000 gm
8. 1 kg = 1000 gm
9. $\frac{1}{2}$ kg = 500 gm
10. $\frac{1}{4}$ kg = 250 gm
11. $\frac{3}{4}$ kg = 750 gm
12. $\frac{1}{8}$ kg = 125 gm
13. 1 gm = 0.001 kg
14. 1 gm = 0.000001 ton

Example 4

- Put the suitable sign (< , = or >):

a) $\frac{1}{2}$ ton .... 500 kg

b) $1\frac{1}{2}$ tons .... 1750 kg

c) 0.425 kg .... 488 gm

d) 0.75 ton .... 150 kg

e) 95000 gm .... 0.85 ton

f) 7.5 kg .... 6500 gm

▶ Solution

a) =   b) <   c) <   d) >   e) <   f) >





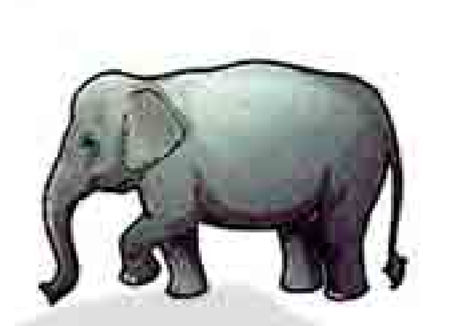

Solve Ex.

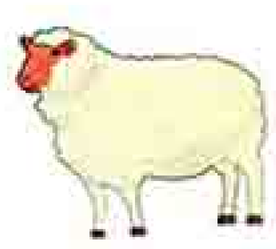
Exercise 2
Weight

1. Underline the better estimate of weight in each of the following:

a)

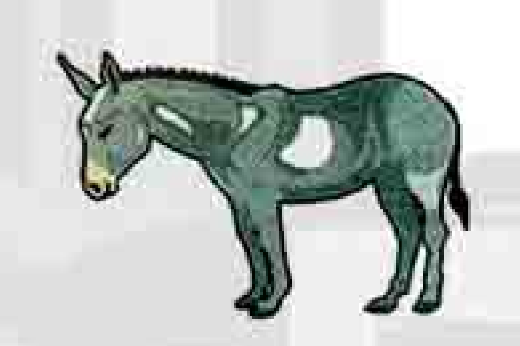
(5 gm, 150 gm or $\frac{1}{2}$ kg)

b)

(2 tons, 200 kg or 50 kg)

c)

(300 kg, 70 kg or 1 ton)

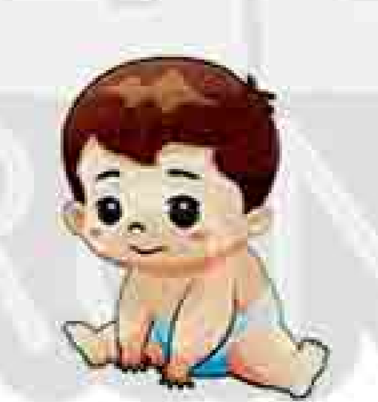
d)

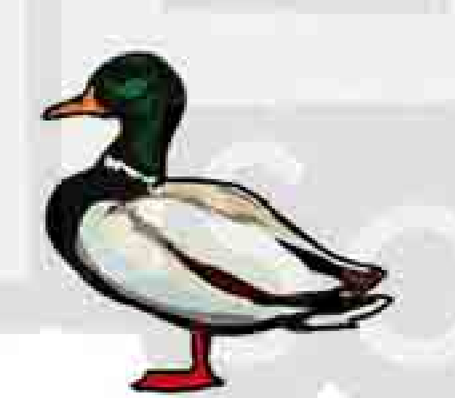
(50 gm, 500 gm or 700 gm)

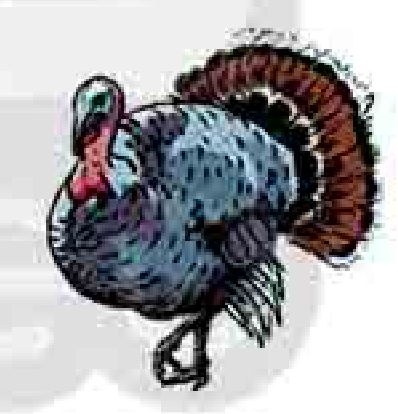
e)

(150 gm, 150 kg or 150 tons)

f)

(10 gm, 250 gm or 750 gm)

g)

(3 kg, 20 kg, 200 kg)

h)

(3 gm, 3 kg, 3 tons)

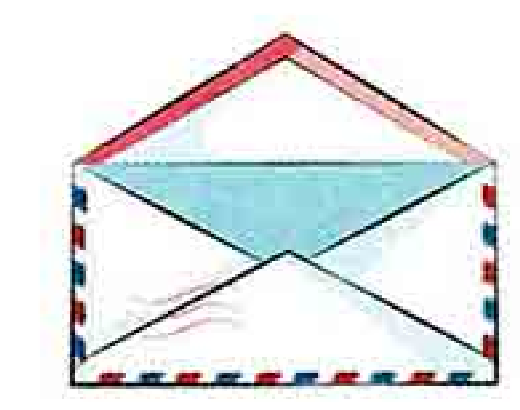
i)

(2 kg, 15 kg, 200 kg)

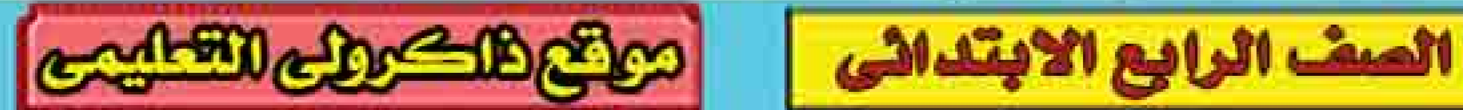
j)

(100 gm, 500 kg, 10 tons)

k)

(15gm, 1kg, 5kg)

l)

(10 gm, 20 kg, 20 tons)

2. Match each picture with its suitable weight:

a) 

b) 

c) 

d) 

5 gm   500 kg   5 tons   5000 gm

3. Write the suitable unit of weight (ton or kg or gm):

a) Buying rice and meat for a family. (..............................)

b) Buying a gold ring for the Mother's Day. (..............................)

c) Buying iron to build a house. (..............................)

4. Choose the suitable answer:

a) The weight of a pupil in Grade Four .... (1 ton , 40 kg or 90000 gm)

b) The weight of a chicken is .... ($\frac{1}{4}$ ton , 2 kg or 100 gm)

c) The heaviest weight a bridge can carry is .... (10 tons , 100 kg or 150000 gm)

d) The weight of a present of jewellery is .... ($\frac{1}{2}$ ton , 105 kg or 15 gm)

e) A truck can be loaded with .... (2 tons , 20 kilograms or 3500 grams)

f) My father's weight is .... (one ton , 95 kilograms or 80 grams)

5. Complete the following:

a) 1 ton = ... kg.

b) 1 kg = ... ton.

c) 1 kg = ... gm.

d) 1 gm = ... kg.

e) 70 kg = ... gm.

f) 1000 gm = ... ton.

g) 10 tons = ... kg.

h) 60 gm = ... kg.

i) 2 kgs = ... gm.

j) 7 tons = ... kg.

k) 4600 gms = ... kg.

l) 1 tons = ... kg = ... gm.

m) .... tons = 25 kg = ... gm.

n) .... tons = ... kg = 30000 gm.

bridge	كوبرى	ring	خاتم

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

6. Put the suitable sign (< or = or >):

a) $\frac{1}{2}$ ton .... 500 kg
b) $1\frac{1}{4}$ tons .... 1250 kg
c) 3.75 tons .... 3751 kg
d) 9.805 tons .... 9894 kg
e) 785 kg .... 0.8 ton
f) 0.75 ton .... 749 kg
g) $3\frac{1}{2}$ kg .... 3500 gms
h) $7\frac{1}{4}$ tons .... 7.750 kg
i) 3500 kg .... 2.5 tons
j) 750 gm .... $\frac{1}{2}$ kg

7. Arrange the following in descending order:

a) 4.7 tons , 4710 kg , 4469000 gm. ....
b) $\frac{1}{5}$ ton , 205 kg , 204000 gm. ....
c) 2.67 tons , 2675 kg , 2350000 gm. ....

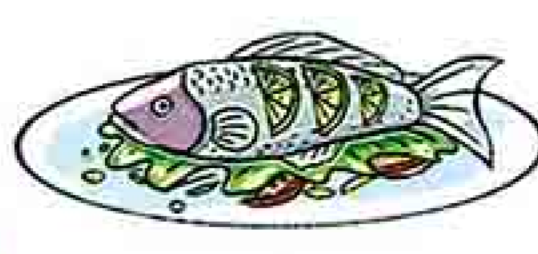
Life Problems

8. A family eats one and a half kilograms of meat every week. If the price of one kilogram is 140 pounds, **how much money does this family pay for meat in a week?**

9. A man bought a golden ornament for his wife. If the weight of the present is 40 gm, and the price of one gram of gold is L.E. 550, how much money did the man pay?



10. A family of 5 persons eats 2 kg of fish every week. The price of fish is L.E. 28 for a kilogram. How much money does this family pay for fish in a month?



11. A man bought 8 tons of iron for building his family house. If the price of 1 kilogram of iron is L.E. 12, find:

d) the price of one ton of iron.
e) the money paid for the iron he bought.





ornament	حلية	gold	ذهب

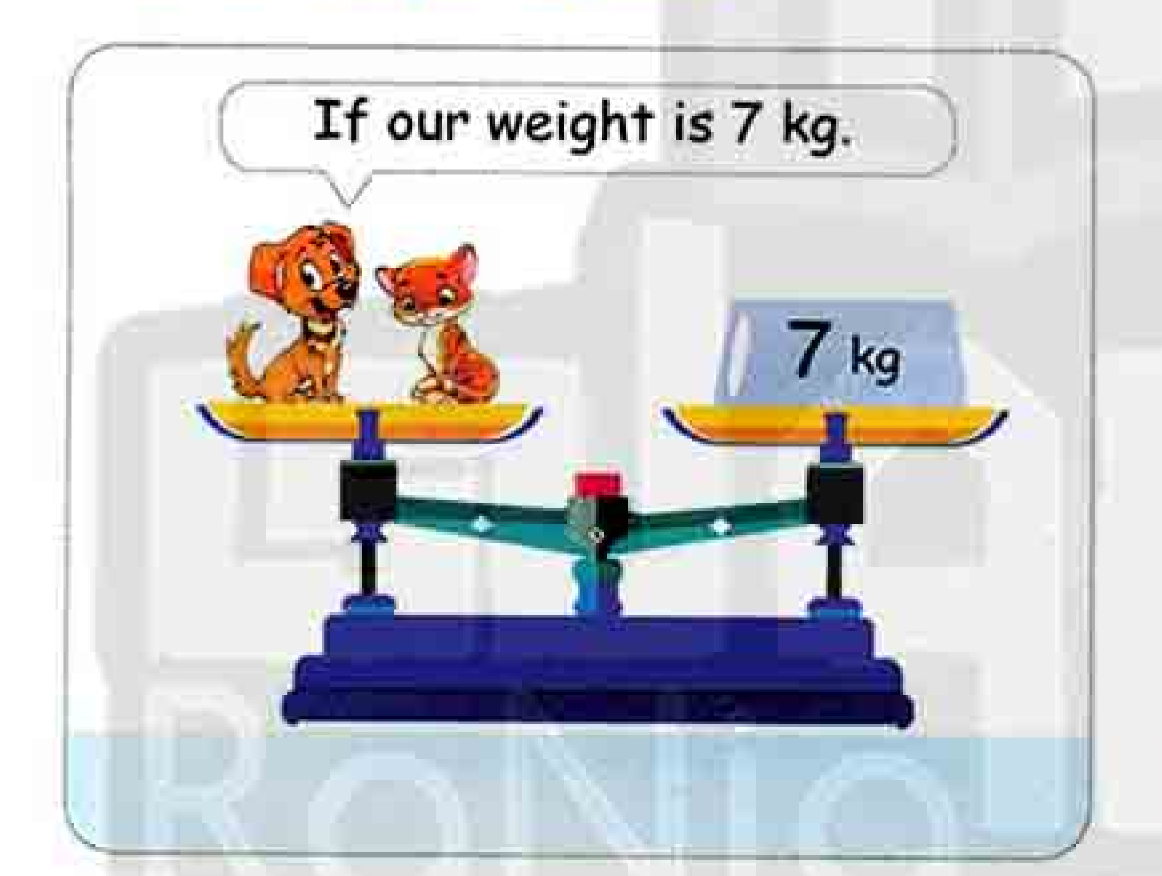
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

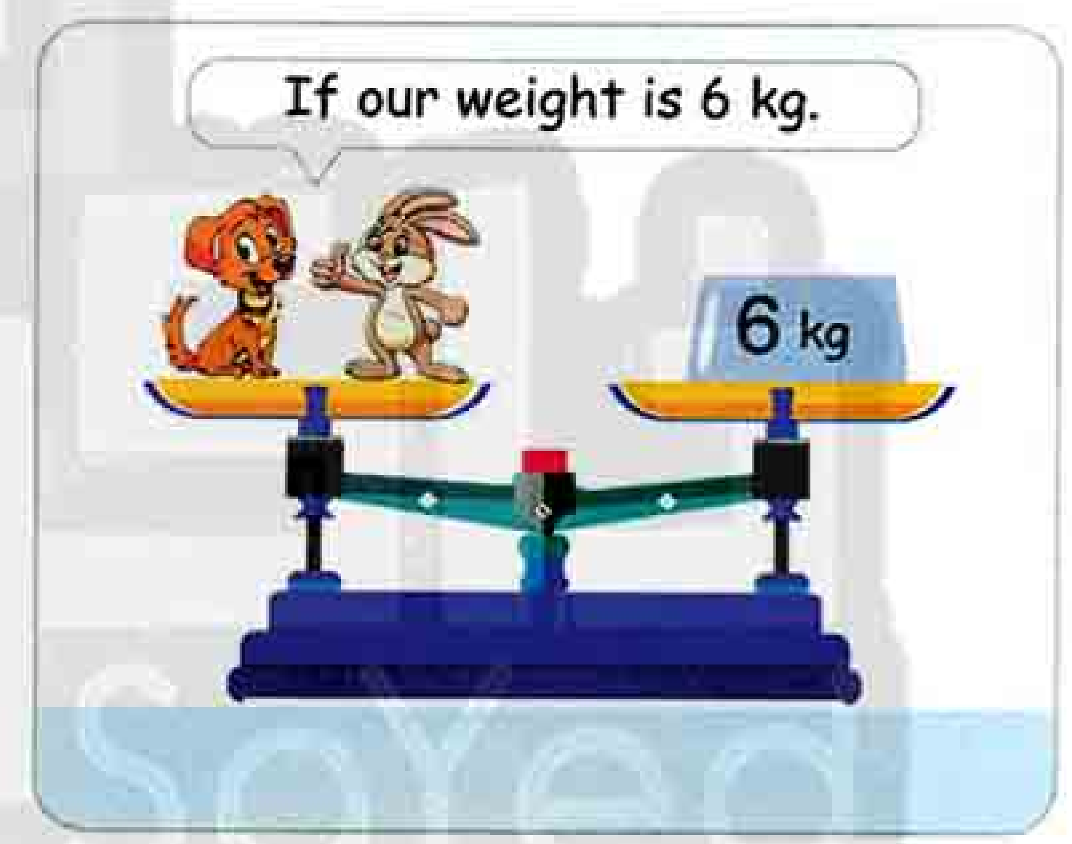
12. A family of 7 persons eat monthly 5 kilograms of bananas, 2 kilograms of apples, 6 kilograms of oranges and 4 kilograms of guavas.
The prices for one kg are as shown as follows:
L.E. 10 for bananas , L.E. 15 for apples ,
L.E. 8 for oranges and L.E. 9 for guavas.
How much money does this family pay for fruits?





13. Find our weight together:











هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Time



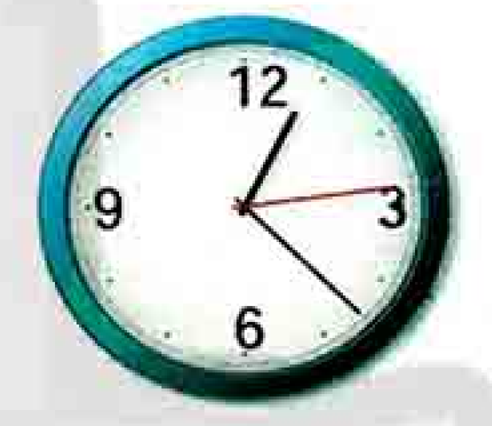
Introduction:

In our life, we deal with time. As you go to your school at a specific time and finish at a specific time, your father goes to work at a specific time and comes back at a specific time.... etc.











The units of measuring time are:

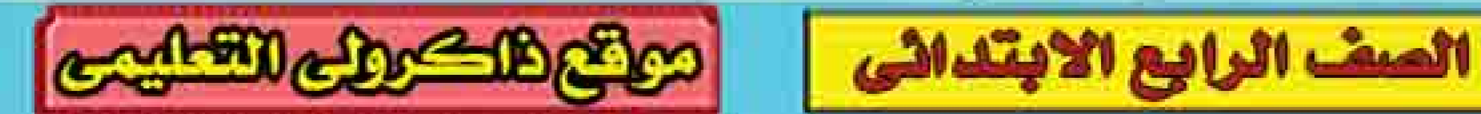
second, minute, hour, day, week, ... etc.



Note that

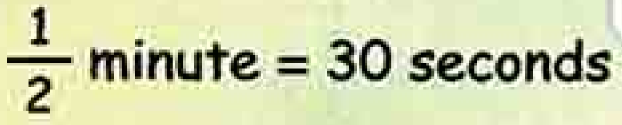
- **1 year = 12 months**
- **1 week = 7 days**
- **1 day = 24 hours**
- **1 hour = 60 minutes**
- **1 minute = 60 seconds**





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Remember that

A day = 24 hours	An hour = 60 minutes	A minute = 60 seconds
$\frac{1}{2}$ a day = 12 hours	$\frac{1}{2}$ an hour = 30 minutes	$\frac{1}{2}$ minute = 30 seconds
$\frac{1}{3}$ a day = 8 hours	$\frac{1}{3}$ an hour = 20 minutes	$\frac{1}{3}$ minute = 20 seconds
$\frac{2}{3}$ a day = 16 hours	$\frac{2}{3}$ an hour = 40 minutes	$\frac{1}{4}$ minute = 15 seconds



Example 1

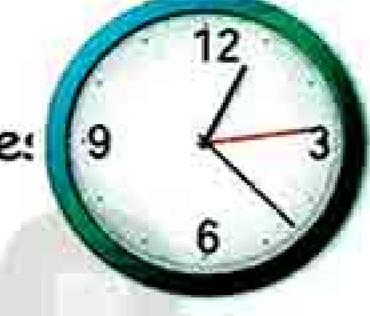
● **Complete the following:**

a) An hour = ... minutes b) A minute = ... hours

c) $\frac{1}{4}$ an hour = ... minutes d) $\frac{1}{2}$ an hour = ... minutes

e) $\frac{1}{3}$ an hour = ... minutes f) 120 minutes = ... hours

g) 270 minutes = ... hours h) One hour and third = ... minutes



▶ Solution

a) An hour = 60 minutes

b) A minute = $\frac{1}{60}$ hours

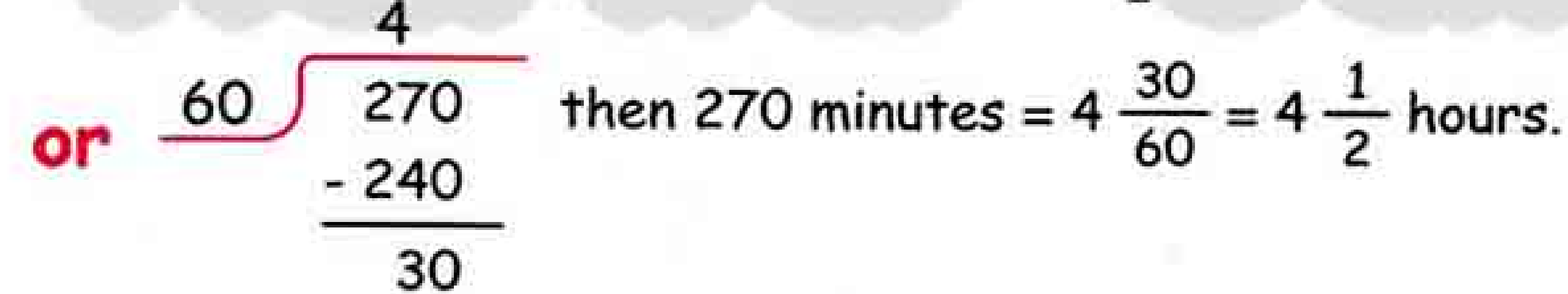
c) $\frac{1}{4}$ an hour = 60 ÷ 4 = 15 minutes

d) $\frac{1}{2}$ an hour = 30 minutes

e) $\frac{1}{3}$ an hour = 20 minutes

f) 120 minutes = 120 ÷ 60 = 2 hours

g) 270 minutes = 60 + 60 + 60 + 60 + 30 = $4\frac{1}{2}$ hours



or $270 \div 60 = 4$, $270 - 240 = 30$ then 270 minutes = $4\frac{30}{60} = 4\frac{1}{2}$ hours.

h) One hour and a third = 60 + 20 = 80 minutes



Try to solve

Complete the following:

a) 150 minutes = ... hours b) $2\frac{1}{2}$ hours = ... minutes





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

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Example 2

- **Complete the following:**

a) 3 minutes = ... seconds
b) 240 seconds = ... minutes
c) $\frac{1}{2}$ an hour = ... seconds
d) 3600 seconds = ... hours
e) Two days = ... hours
f) 72 hours = ... days
g) 35 days = ... weeks
h) A day = ... minutes
i) 36 hours = ... days
j) $2\frac{1}{2}$ days = ... hours

▶ Solution

a) 3 minutes = 3 × 60 = 180 seconds
b) 240 seconds = 240 ÷ 60 = 4 minutes
c) $\frac{1}{2}$ an hour = $\frac{1}{2}$ × 60 = 30 minutes, $\frac{1}{2}$ an hour = 30 × 60 = 1800 seconds
d) 3600 seconds = 3600 ÷ 60 = 60 minutes and 60 ÷ 60 = 1 hour
e) Two days = 2 × 24 = 48 hours
f) 72 hours = 72 ÷ 24 = 3 days
g) 35 days = 35 ÷ 7 = 5 weeks
h) A day = 24 hours, A day = 24 × 60 = 1440 minutes
i) 36 hours = (24 + 12) hours = $1\frac{1}{2}$ days
j) $2\frac{1}{2}$ days = (48 + 12) hours = 60 hours

Example 3

- **Arrange in ascending order:**

1440 minutes , 3600 seconds, $\frac{1}{2}$ day and $\frac{1}{4}$ day

▶ Solution



- 1440 minutes = 1440 ÷ 60 = 24 hours
- 3600 seconds = 3600 ÷ 60 = 60 minutes = 1 hour
- $\frac{1}{2}$ days = 12 hours
- $\frac{1}{4}$ days = 6 hours

The order is: 3600 seconds , $\frac{1}{4}$ days , $\frac{1}{2}$ days and 1440 minutes

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Solve Ex.

Exercise 3

Time

1. Choose the correct answer:

a) The time of travelling from Cairo to Ismailia is ....
($1\frac{1}{2}$ hours , $\frac{1}{2}$ an hour or 50 minutes)

b) To wear your clothes you take .... (1 hour , 5 minutes or 75 seconds)

c) To have lunch you take .... (75 seconds , $\frac{1}{3}$ an hour or $1\frac{1}{2}$ hours)

d) I watched a new film for .... ($\frac{1}{2}$ day , 2 hours or 3 minutes)

e) Doing my homework yesterday takes .... ($\frac{1}{2}$ day , 2 hours or 3 minutes)

f) A person sleeps daily for about .... (500 seconds , 500 minutes or 100 minutes)

g) An employee works daily for .... (360 seconds , 48 minutes or $\frac{1}{2}$ days)

h) Preparing Friday breakfast takes .... ($\frac{1}{2}$ day , $\frac{1}{2}$ an hour or 30 seconds)

i) The daily time taken by a student to watch T.V. is .... (day , one hour or second)

j) The suitable unit using in estimating the time taken by the winner in a running race of 100 meters is .... (day , hour or second)

k) The suitable unit using in estimating the time taken for a football match is .... (day , minute or second)

2. Complete each of the following:

a) 5 hours = ... minutes.

b) $2\frac{1}{2}$ hours = ... minutes.

c) 1 minute = ... hour.

d) 1 hour = ... day.

e) 1 second = ... minute.

f) $1\frac{1}{4}$ days = ... hours.

g) 1 day = ... minutes.

h) $4\frac{1}{2}$ minutes = ... seconds.

i) 2 days = ... hours.

j) 1 day = ... hours.

k) $\frac{1}{2}$ day = ... hours.

l) $\frac{1}{3}$ day = ... hours.

employee موظف





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

m) $\frac{1}{4}$ day = ... hours.

n) $\frac{1}{6}$ day = ... hours.

o) $\frac{1}{8}$ day = ... hours.

p) 24 hours = ... days.

q) 48 hours= .... days.

r) 36 hours = ... days.

s) 1 day = ... hours = ... minutes.

3. Complete each of the following:

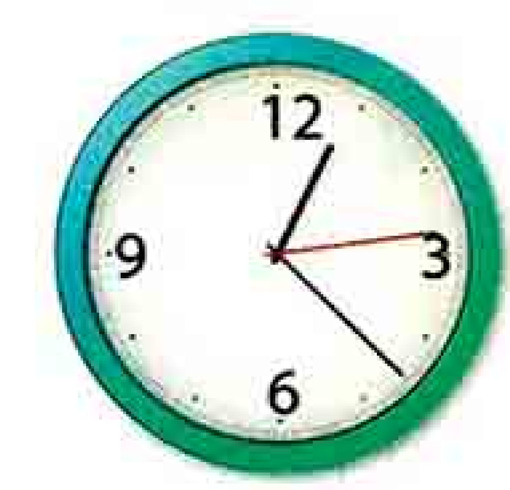
a) 80 minutes = ... hours + ... minutes

b) 135 minutes = ... hours + ... minutes

c) 200 minutes = ... hours + ... minutes

d) 240 minutes = ... hours + ... minutes

e) 210 minutes = ... hours + ... minutes



4. Complete:

a) 1 day and 3 hours = ... hours.

b) 10 hours and 40 minutes = ... minutes.

c) 3 days and 240 minutes = ... days.

d) $\frac{3}{4}$ hour and 10 minutes = ... minutes.

e) 120 minutes and 3600 seconds = ... hours

5. Arrange the following in ascending order:

a) 📖 300 minutes , 19000 seconds , 4 hours.

b) 📖 1440 minutes , 3600 seconds , $\frac{1}{3}$ day.

c) $\frac{1}{2}$ day , 10 hours , 4800 minutes.

6. Arrange the following in descending order:

a) 📖 $\frac{2}{3}$ day , 18 hours , 1020 minutes.

b) 3000 minutes , 5 hours , 1800 seconds.

c) $1\frac{1}{2}$ days , 30 hours , 3600 minutes.

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7. Put the suitable sign (< , = or >):

a) $\frac{3}{4}$ hours .... 50 minutes.

b) $\frac{1}{3}$ day .... 7 hours.

c) $\frac{2}{3}$ hour .... 2600 seconds.

d) 120 seconds .... 3 minutes.

e) 2 hours .... 9000 seconds.

f) $\frac{1}{10}$ hour .... 360 seconds.

g) 72 hours .... three days.

8. Complete:

a) Some units of measuring time are ...., ... and, ..., ...

b) 1 day = ... hours, 1 hour = ... day.
1 hour = ... minutes, 1 minute = ...
1 minute = ... seconds, 1 second = ... minute.

c) day = ... hours = ... × .... minutes = ... minutes.
1 hour = ... minutes = ... × .... seconds = ... seconds.
1 day = ... minutes = ... × .... second = ... second.

Rania Sayed

Life Problems

9. Mai's birthday is on 3 / 4 / 1987. What is her age on 15 / 11 / 2012?

10. A train started to move from Cairo at 6 : 45 a.m and it arrived in Beni-Suef at 8:30 a.m. in the same day.

How long did the trip take?



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

11. A football match started at 3 : 00 p.m.

The time of the match was 90 minutes,

$\frac{1}{4}$ hour is a rest,and the wasted time was 5 minutes.

What was the time at the end of the match?



12. Mona used to ride her bike in the weekends. Once she rode it at



and finished at 03:40.

How long did she ride her bike on that day?

13. If Mazen's birthday was on 17/5/1999, what would his age be on 1/10/2009?

14. An engineer works for 8 hours daily in an investment company, and his salary is L.E. 20 for an hour, find his salary:

a) in a week.

b) in 7 weeks

(Knowing that: he works 5 days a week)



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p.m.	مساء	rest	راحة	engineer	مهندس
investment	استثمارى	salary	مرتب		

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General Exercises on Unit 3

1. Choose the correct answer from those between brackets:

a) $\frac{2}{3}$ a day = ... hours. (16 , 15 , 6 or 18)

b) Third of a day = ... hours. (12 , 3 , 8 or 15)

c) 4.5 tons = ... kg. (45 , 54 , 4500 or 5400)

d) One day = ... minutes. (3600 , 60 , 24 or 1440)

e) 14 days and 4 weeks = ... weeks. (2 , 4 , 5 or 6)

f) 25 decimeters cube = ... ($\frac{15}{5}$ liters , 25 liters , $\frac{1}{4}$ liter or 25 milliliters)

g) $25\frac{1}{3}$ kg. ≃ .... to the nearest kg. (26 , 24 , 25 or $\frac{76}{3}$)

h) 3750 cm. = ... meters. (3.75 , 373 , 375000 or 37.5)

i) The liter is the capacity of a vessel in the shape of a cube with edge length = ...
(1 cm , 10 cm , 100 cm or 1000 cm)

j) $\frac{3}{4}$ of the day = ... minutes. (1080 , 180 , 100 or 1800)

k) $\frac{1}{2}$ liter = ... cm^3. (500 , 5000 , 50 or 50000)

2. Put the suitable sign (< , = or >):

a) $\frac{3}{4}$ hour ...... 75 minutes

b) 5 tons ...... 5000 gm

c) $4\frac{3}{4}$ pounds ...... 475 piasters

d) 0.5 kg ...... 750 gm

e) $\frac{1}{3}$ of the day ...... 7 hours

f) 9800 milliliters ...... 9.8 liters

g) 84 hours ...... 5 days

h) 5400 piasters ...... 54 pounds

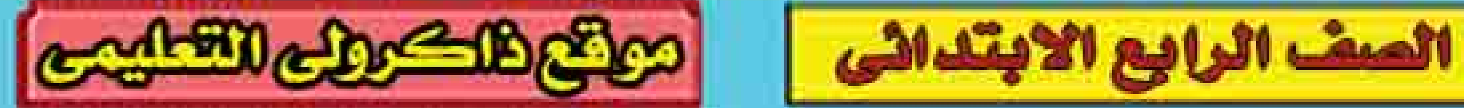
i) A liter ...... 100 milliliters

j) 100 gm ...... kg

k) 8780 kg ...... 9 tons

l) 1.25 liters ...... 9 dm^3





3. Complete each of the following:

a) 4750 milliliters = ... liters.

b) $4\frac{3}{100}$ = ... (a decimal number)

c) 32 days ≃ .... (to the nearest week)

d) 5 tons = ... kg.

e) 8500 milliliters = ... liter(s).

f) 540 piasters = ... pounds.

g) The third of the day = ... hours.

h) A liter = ... milliliter(s).

i) A minute = ... seconds.

4. Put (✓) for the correct statement and (✗) for the incorrect one:

a) 9.7 liters = 9.700 decimeters cube. ( )

b) 2.5 days = 60 hours. ( )

5. Arrange ascendingly:

a) (37 hours, $\frac{1}{2}$ day and 2225 minutes)

b) (4 liters, 4700 milliliters and 4.5 dm^3)

c) (8750 kg, 9 tons and 8740000 gm)

6. Answer the following:

1. A man bought 8 tons of iron for building a house. If the price of one kg of iron is 9 pounds.

   Find: a) The price of one ton of iron.

   b) The price of the quantity of iron which the man bought.

2. A road of length 55 km, if 25.78 km of it was paved. How long is the part which was left without paving?

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UNIT 3

Basic Cumulative Skills on Unit (3) (TIMSS)

First Choose the correct answer from the given ones:

1. The suitable unit for measuring the weight of an egg is ....

a) cm b) mm c) gm d) kg

2. If Ahmed is 1.8 meters tall and his sister is half of his height then the height of his sister = ...

a) 0.4 m b) 0.8 m c) 0.9 m d) 1.4 m

3. The weight of an elephant can be ....

a) 40 kg b) 250 gm c) 4 tons d) 5000 gm

4. If a family saw a film which started at 5:30 p.m. and it finished at 8:45 p.m. then the time passed = ...

a) 3 hours b) 2 hours and 10 minutes
c) 4 hours d) 3 hours and 15 minutes

5. The suitable length of your notebook is ....

a) 5 cm b) 30 cm c) 1 cm d) $\frac{1}{2}$ km

6. 300 minutes = ... hours

a) 5 b) 4 c) 4 d) 2

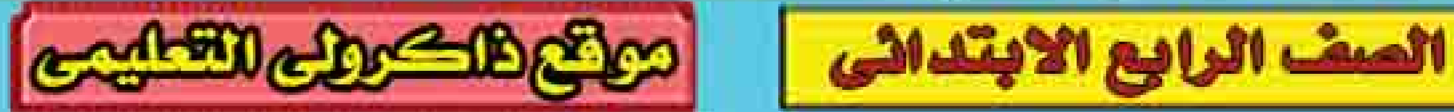
Second Answer the following:

7. How many sceonds are there in 1 hour?

8. How many hours are there in a week?

9. Arrange the following lengths ascendingly:

3 km, 2550 m, 4750 m, 1 million cm.



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UNIT TEST 3 on Unit



1 Choose the correct answer from those between brackets:

1. 3 litres = ... millilitres. (3 or 30 or 300 or 3000)
2. A quarter of a day = ... hours. (4 or 6 or 8 or 12)
3. 6.5 tons = ... kg. (650 or 6500 or 6050)
4. 14 days and 4 weeks = ... weeks. (3 or 4 or 5 or 6)
5. 2 weeks = ... days. (14 or 36 or 48 or 120)
6. 4.8 litres = ... dm^3. (4800 or 4.8 or 480 or 48000)
7. 2.5 tons = ... 2250 kg. (> or < or =)
8. $\frac{1}{4}$ litre = ... mL. (250 or 300 or 450)

2 Complete each of the following:

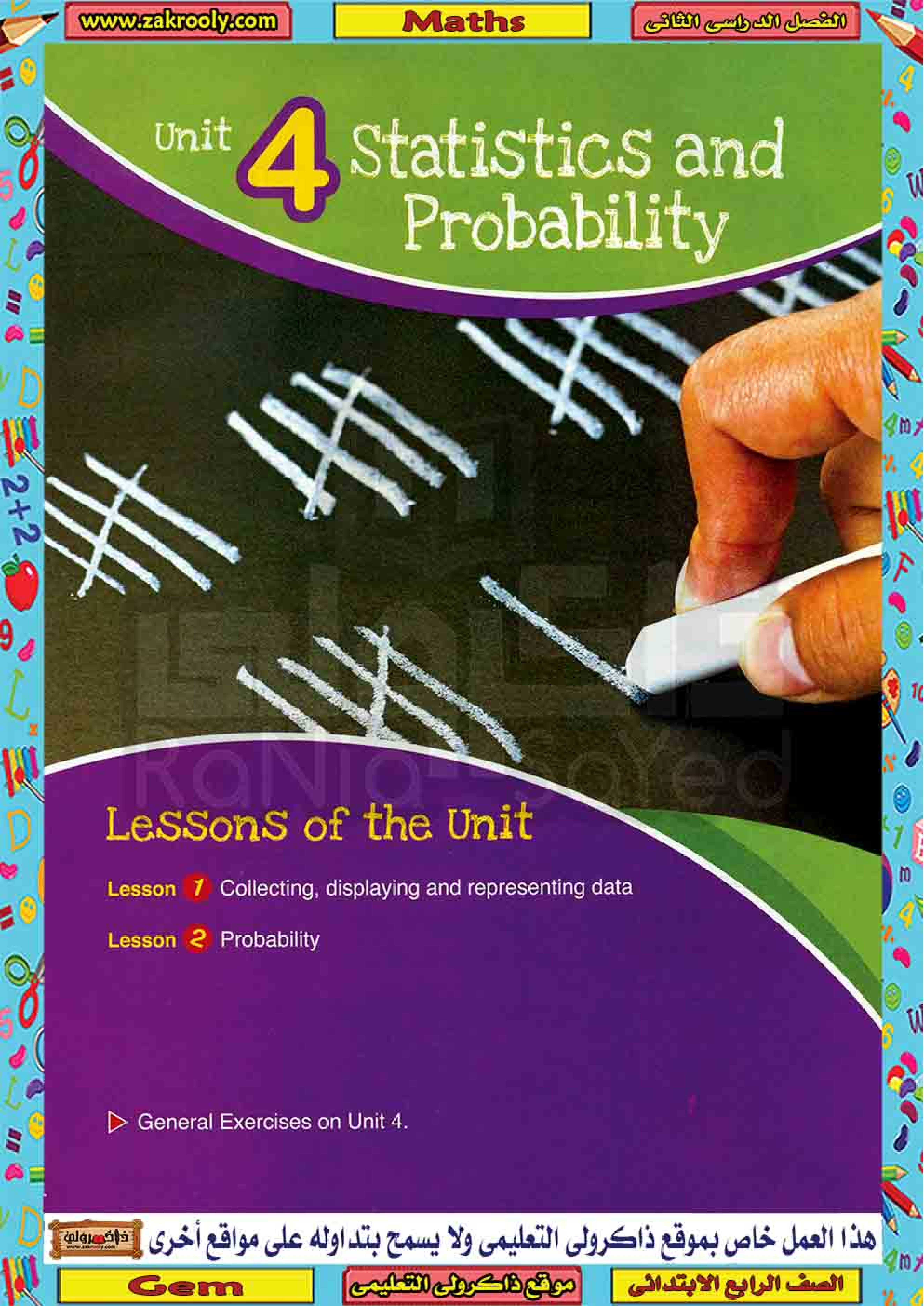
9. The litre = ... millilitres.
10. $\frac{1}{2}$ litre = ... cm^3.
11. $\frac{1}{4}$ km = ... metres.
12. One minute = ... seconds.

لا تنس الاشتراك في قنوات ذاكرولي على تطبيق التليجرام

3 Answer the following:

13. Arrange the following in ascending order:
    9 kg, 8000 gm, $5\frac{1}{2}$ kg and 7500 gm.
    The order is: .... , ... , ... , ...
14. Arrange the following in descending order:
    $4\frac{1}{2}$ litre , 2500 mL, 6 litres, 3000 mL.
    The order is: .... , ... , ... , ...

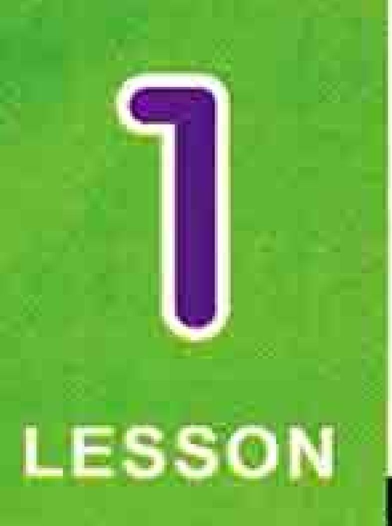
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Unit 4 Statistics and Probability

Lessons of the Unit

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Collecting, displaying and representing data

Collecting and displaying data:

In our life, we need to collect data using ways such as noticing, experimenting and field (practical) studies so, we can understand what is going on and take correct decisions.

(a) Noticing:

For example:

- You can notice the absentees in your class in a week and record the data in a table:

Day	Sunday	Monday	Tuesday	Wednesday	Thursday
Number of absent pupils	3	4	4	6	8

Using the table above, you can easily answer the following questions:

1. On what day was the greatest number of absentees? Thursday.
2. On what day was the smallest number of absentees? Sunday.

(b) Experimenting:

Experimenting is basic to enable us to obtain new knowledge and get new information that was not known before.

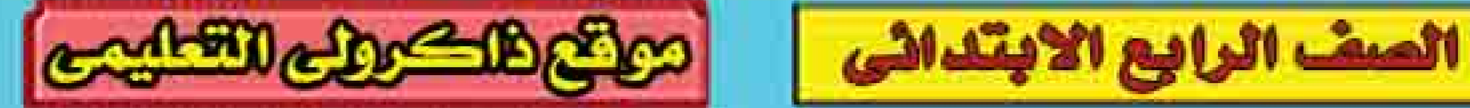
(c) Field (Practical) studies:

To know people's opinions about some topics to help us to take the right decision.

For example:

- Some television channels question its viewers about their favourite programs.

collect	يجمع	topics	الموضوعات	experimenting	تجريبى
practical	عملى	viewers	المشاهدين	field studies	دراسات ميدانية
displaying data			عرض البيانات		


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Displaying data and deducing information from it:

Example 1

- A class teacher recorded his pupils' marks in a tally table as:

Marks	Student tallies	Number of pupils (Frequency)
From 0 to 2	////	4
From 3 to 5	~~////~~ ///	8
From 6 to 8	~~////~~ ~~////~~	10
From 9 to 11	~~////~~ ///	8

Note that

- In the 2nd column student tallies are arranged in groups (each of 5)
- In the 2nd row ~~||||~~ ||| means that 8 pupils got marks between 3 and 5.

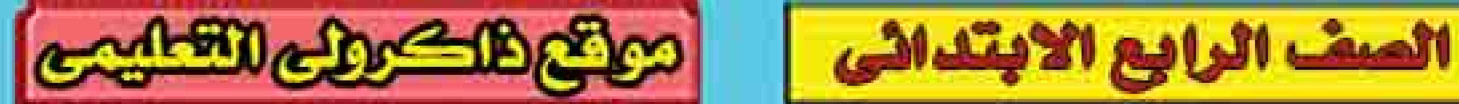
From this table, answer the following questions:

1. How many pupils got the marks from 6 to 8?
2. What is the number of pupils in this class?

Solution

1. 10 pupils got the marks from 6 to 8.
2. $4 + 8 + 10 + 8 = 30$ pupils.

tally table	جدول العلامات	frequency	التكرار



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UNIT 4

Representing data:

First Representing data using (bar lines graph):



1 Representing data using a histogram

Example 2

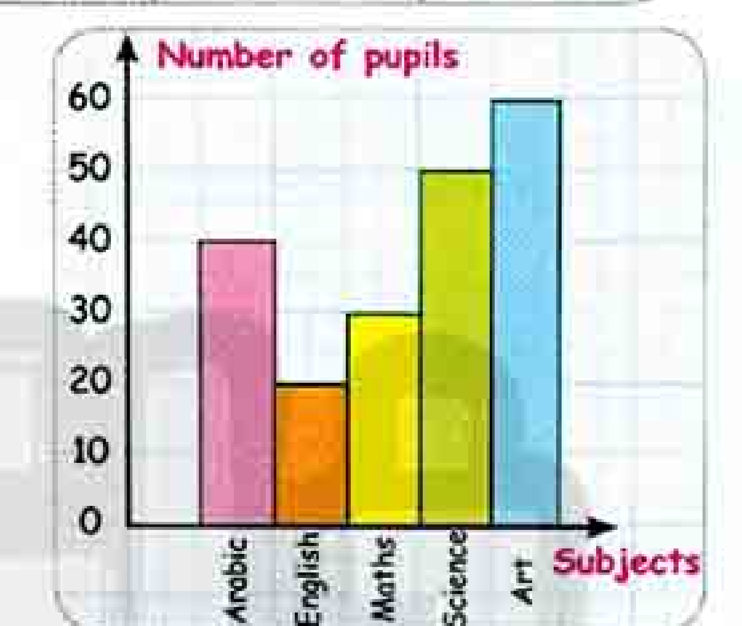
- The following table shows the subjects that some pupils prefer:

Subject	Arabic	English	Maths	Science	Art	Total
Number of pupils	40	20	30	50	60	200

a) **Represent** these data using a histogram.

b) What's the subject that the most pupils prefer?

c) What's the subject that the least pupils prefer?



Solution

a) The subject that the most pupils prefer is art.

b) The subject that the least pupils prefer is English.

2 Representing data using bar graphs.

Example 3

- The following table shows the money which Ahmed saved during 4 months:

Month	Jan.	Feb.	Mrach	April
Money in L.E.	30	45	40	25

Represent these data by a bar line graph:

Solution



histogram	مدرج تكرارى	subject	مادة	art	رسم


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3 Representing data using a double bar graph.

Example 4

- The table below shows the highest and the lowest temperature on one day in January:

City / Temperature	Cairo	Matrouh	Alex.	Sharm El Sheikh	Aswan
The highest degree	18	15	17	16	20
The lowest degree	10	7	9	10	14

Represent these data using a double bar graph. Then complete:

a) The highest temperature was in ....

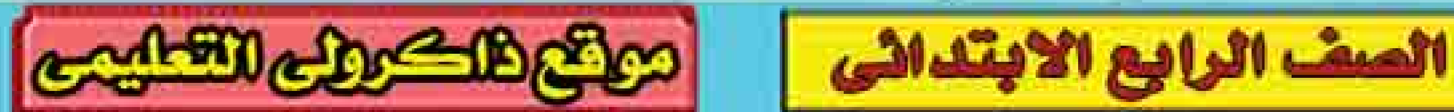
b) The lowest temperature was in ....

Solution

a) Aswan **b)** Matrouh

temperature درجة حرارة


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Second: Representing data using the tree-diagram

Example 5

- How many different 3-digit numbers can we form from the digits 2,3 and 5? (without repeating any of the three digits)

Solution

We can easily use a tree diagram to write the required numbers to do that we follow 3 steps:

1st: choose the unit digit | 2nd: choose the tens digit | 3rd: choose the hundred digit

Units digit	Tens digit	Hundreds digit	Resulting number
2	3	5	2 3 5
	5	3	2 5 3
3	2	5	3 2 5
	5	2	3 5 2
5	2	3	5 2 3
	3	2	5 3 2

So, we can form the numbers: 235, 253 , 325 , 352 , 523 , 532.
i.e Six different 3-digit numbers






Exercise 1

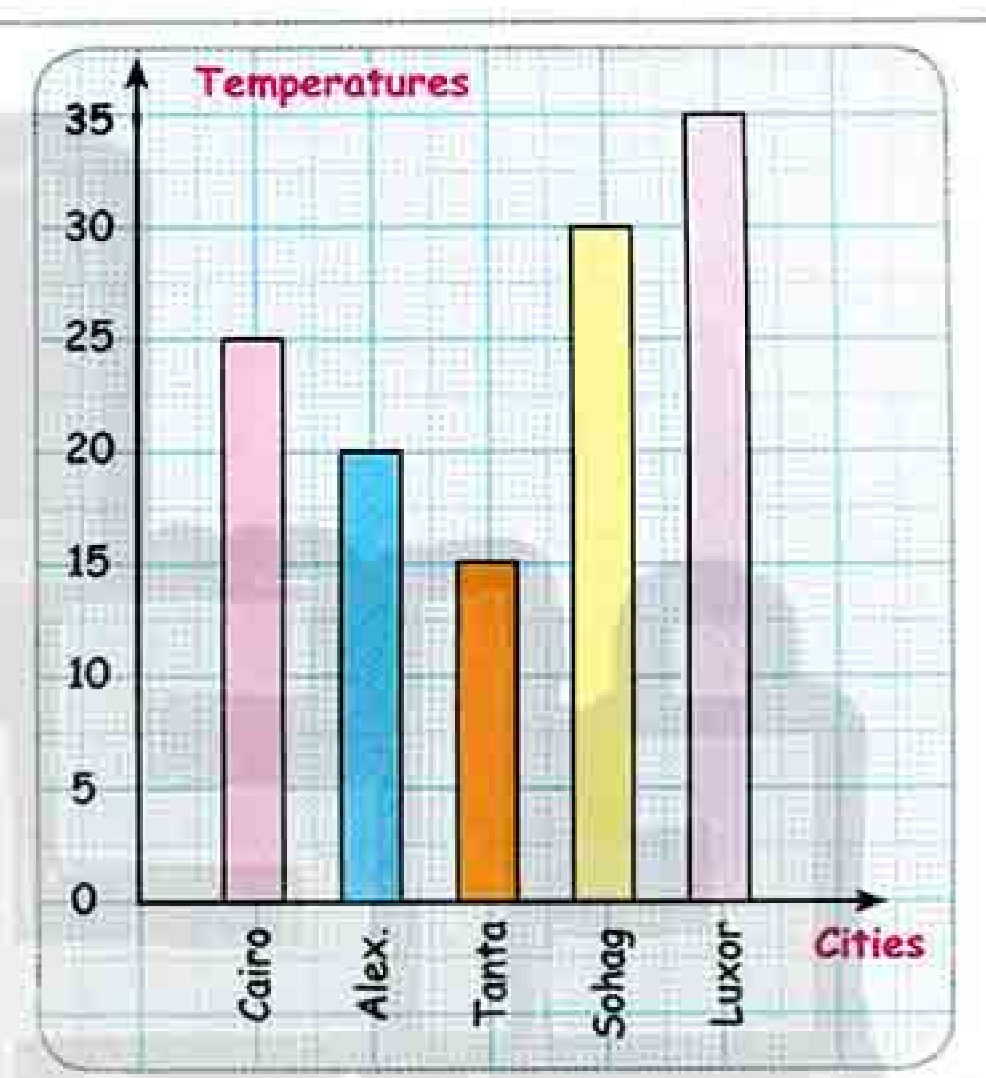
Collecting, displaying and representing data

1. Complete each of the following:

a) From the methods of collecting data are .... , ... and ....

b) We can represent data using .... , ... and ....

2. The following bar graph represents the temperatures in 5 Egyptian cities in one day. Look at the bar graph and complete the table.



Cities	Cairo	Alex.	Tanta	Sohag	Luxor
Temp.	....	....	....	....	....

3. The opposite graph represents the pupils in a primary school, notice and complete:

Number of pupils
100
80
60
40
20
0
1 2 3 4 5 6 Grade

a) Which grade has the greatest number of pupils? ....

b) Which grade has the smallest number of pupils? ....

c) What's the total number of pupils in this school? ....

d) Complete the table:

Grade	1	2	3	4	5	6
Number of pupils	....	....	....	....	....	....

ذاكرولى
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4. A questionnaire was made among a set of youths about their favourite sports. The results were as follows:

Sport	Football	Basketball	Volleyball	Swimming	Table tennis	Others
Number	50	28	15	25	10	10

Complete representing these data on the bar line graph below.



5. The following table shows the savings of Mazen and Mona in 6 months:

Months	Jan.	Feb.	March	April	May	June
Savings of Mazen	8	4	10	6	5	7
Savings of Mona	5	12	10	8	12	7

a) Complete the graph.

b) Mona and Mazen have equal savings in .... and ....

c) In which month was the difference between Mona's and Mazen's savings the greatest? ....

d) Mazen saves money more than Mona only in ....

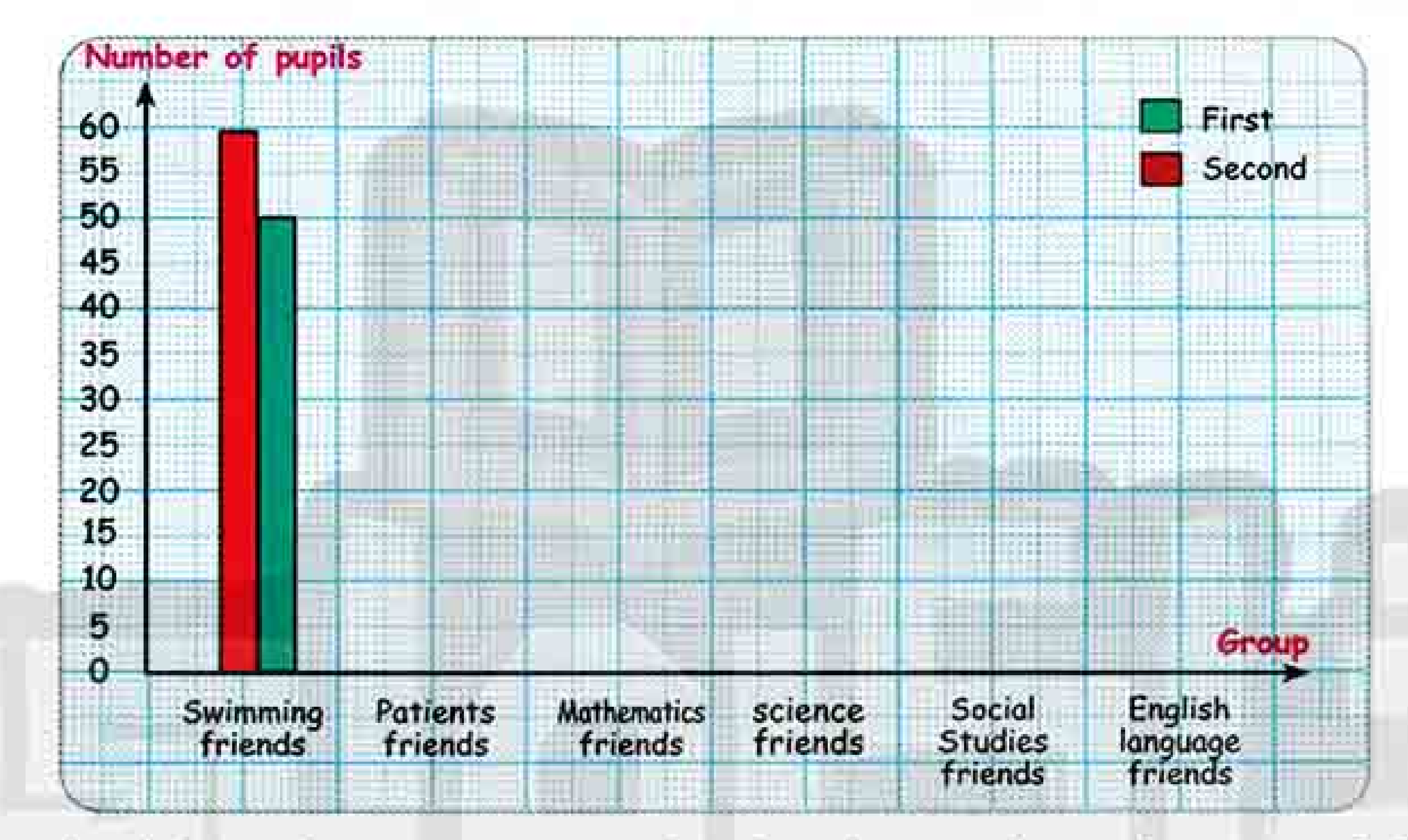


A questionnaire استبيان

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6. The table below shows the number of pupils, in two schools, taking part in the groups of school activities. Complete representing these data by double bars, then answer the questions.

Group / School	Swimming friends	Patients friends	Mathematics friends	Science friends	Social Studies friends	English language friends
First	50	45	3	25	30	20
Second	60	50	2	20	25	15



a) Which school has the greater number in the mathematics group? What is the difference between them?

b) What is the number of pupils in the swimming group in both schools? What is the difference between them?

c) Which school has the larger number of pupils in the school activities? What do you think about the difference between the number of pupils in the school activities in both schools?

7. By asking 40 families about how many kilograms of milk they use every week, we have the following table:

Complete the table, then represent the data using a histogram:

Number of kilograms	1	2	3	4	5	6	7	8
Tallies	....	𝍸 //	....	....	𝍸 ///	𝍸 /	....	//
Number of families	2	....	7	6	....	....	2	....

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8. The table below shows the quantities of sugar consumed by a family in kilograms during some months.

Months	Jan.	Feb.	March	April	May	June
Kilograms	12	8	9	10	8	6

Represent these data by a bar graph, then answer the following questions.

a) What's the greatest quantity consumed by this family?

b) In what month was the greatest quantity?

9. The following table shows the marks of Nada in a monthly exam, represent these data by a bar graph:

Subjects	Religion	Arabic	Maths	Science	Social Studies	English
Marks	8	9	10	7	6	8

10. The table below shows the production of handmade carpets that were exhibited by a group of productive families in an exhibition:

Family	First	Second	Third	Fourth	Fifth
No. of carpets	35	25	5	15	20

Represent these data by a histogram.

11. The following table shows the hours of studying of both Engy and Sameh in 4 weeks:

Week / Name	1st	2nd	3rd	4th
Engy	15	20	20	25
Sameh	20	15	25	25

a) Represent these data by a double bar graph.

b) Find the total number of hours that Engy studies in the 4 weeks.

quantities	كميات	consumed	استهلكت
handmade	يدوى	exhibited	عُرضت







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12. The following table shows the temperatures both in the morning and at noon during a week in Cairo.

Day / Period	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.
In the morning	16°	15°	17°	20°	18°	17°	16°
At noon	26°	25°	30°	32°	27°	28°	25°

a) Represent these data by double bars.

b) What kind of clothes do you advise people to wear at noon?

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2 LESSON

Probability



First Events:

An event is either certain, possible or impossible.

a) **Certain event** or sure event: It will happen.

For example:
The sun rises from the east.



b) **Possible event:** It may happen.

For example:
It may rain tomorrow.



c) **Impossible event:** never happens.

For example:
A cow will fly.



Second Calculating probability

Probability expresses the chance of occurrence of an event

Let the probability of:

The certain event = 1

and the impossible event = 0

Then possible event lies between 0 and 1.

0 < The probability of the possible event < 1





chance فرصة	rain تمطر

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Example 1

- Complete and choose the correct answer as the example:

Events	Probability degree	Probability of occurrence
Example: A pupil rides a bike to school.	possible	between 0 and 1
Example: Day comes after night.	certain	equals 1
a) A goat will fly in through the window.		
b) The winter will be colder than the summer.		
c) I will get something wrong today.		
d) If I jump up, I will come back down again.		
e) If I throw a regular die, I will get 7.		

Solution

a) impossible, zero **b)** certain, 1 **c)** possible, between 0 and 1
d) certain , 1 **e)** impossible, zero

In general

The probability of an event E is calculated by using the rule:

$$P(E) = \frac{\text{number of occurrence of event E}}{\text{total number of all possible outcomes}}$$

For example:

(1) When tossing a regular coin once all possible outcomes are a head or a tail, then the number of all possible outcomes = 2

Then p (head) = $\frac{1}{2}$, p (tail) = $\frac{1}{2}$

and the sum of probabilities of all possible outcomes

$\frac{1}{2} + \frac{1}{2} = 1$

(2) When rolling a single die once then all possible outcomes are 1 , 2 , 3 ,4 , 5 and 6, then the number of all possible outcomes = 6

then p (1) = $\frac{1}{6}$, p (2) = $\frac{1}{6}$, p (3) = $\frac{1}{6}$, p (4) = $\frac{1}{6}$, p (5) = $\frac{1}{6}$, p (6) = $\frac{1}{6}$

and the sum of probabilities of all possible outcomes

$= \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{6}{6} = 1$

occurrence	حدوث	jump up	يقفز

ذاكرولى
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Note that

In general: the sum of probabilities of all possible events = 1



Example 2

- A glass jar contains 6 red, 5 green, 8 blue and 3 yellow marbles. If a single marble is chosen randomly (or blindly) from the jar. What is the probability of choosing ..?

a) A red marble **b)** A green marble

c) A blue marble **d)** A yellow marble

e) A non-yellow marble



Solution

red	green	blue	yellow	sum
6	5	8	3	22

a) P (red) $= \frac{\text{the number of red marbles}}{\text{the total number of marbles}} = \frac{6}{22} = \frac{3}{11}$

b) P (green) $= \frac{\text{the number of green marbles}}{\text{the total number of marbles}} = \frac{5}{22}$

c) P (blue) $= \frac{\text{the number of blue marbles}}{\text{the total number of marbles}} = \frac{8}{22} = \frac{4}{11}$

d) P (yellow) $= \frac{\text{the number of yellow marbles}}{\text{the total number of marbles}} = \frac{3}{22}$

e) Since the sum of probabilities of all possible events = 1

then p (non-yellow) $= 1 - \frac{3}{22} = \frac{19}{22}$

Note

Sum of all possible events $= \frac{6}{22} + \frac{5}{22} + \frac{8}{22} + \frac{3}{22} = \frac{22}{22} = 1$

outcomes	نواتج	marbles	بليات	total	كلى
randomly	عشوائى	blindly	بدون مشاهدة		

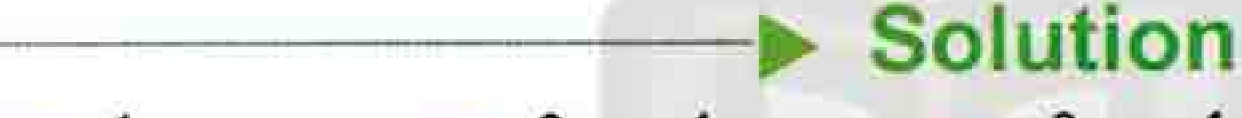
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Example 3

- Use the opposite figure to answer the following questions:



1. What is the probability of the spinner landing on 3? ....
2. What is the probability of the spinner landing on 1? ....
3. What is the probability of the spinner landing on an even number? ....
4. Are you more likely to spin an odd number or an even number? ....



Solution

1. $\frac{1}{6}$
2. $\frac{2}{6} = \frac{1}{3}$
3. $\frac{3}{6} = \frac{1}{2}$
4. Both of equal chances

Example 4

- Using the opposite figure, answer:



1. What is the probability of the spinner landing on red? ....
2. What is the probability of the spinner landing on orange? ....
3. What is the probability of the spinner landing on blue? ....
4. Ramy said, "I have a fifty-fifty chance that the spinner lands on red". Explain what he means. ....

Solution

1. $\frac{1}{2}$
2. $\frac{1}{4}$
3. $\frac{1}{4}$
4. fifty- fifty means the probability is equal $\frac{1}{2}$



Try to solve

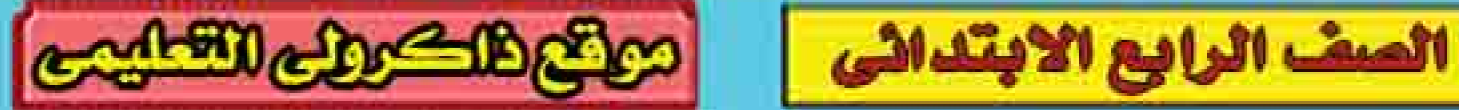
You have identical cards with the numbers 1 , 4 , 6 , 8 and 10 written on them. If one card is drawn blindly, what is the probability of having a number between 5 and 9?

4 | 6 | 1 | 10 | 8

fifty-fifty	50 – 50	chance	فرصة	land on	يستقر على






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Solve Ex.

Exercise 2

Probability

1. Complete the following:

1) The probability of the certain event = ...

2) The probability of the impossible event = ...

3) The probability of any event lies between .... and ....

4) The probability of getting a tail when tossing a coin = ...

5) The probability of getting any number on the upper face when rolling a dice = ...

6) When Nada tossed a coin 10 times, she got head 6 times, so the probability of getting a tail = ...

7) The probability of getting a number greater than 6 when rolling a dice = ...

8) The probability of pulling a red card out of a bag contains 15 cards, 8 are yellow, 2 are blue and the rest are red = ...

9) The probability of getting a picture of a girl from the playing cards = ...

10) Getting a number greater than 6, when a die is thrown once is a/an .... event.

11) The sun rises from east is a/an .... event.

12) A box contains 3 white balls and 7 red balls and 5 green balls. A ball is drawn randomly from the box. The probability that the drawn ball is blue is ....

13) If the probability of the occurrence of an event is $\frac{3}{10}$, then the probability of its non-occurrence is ....

14) If you throw a dice once, then the probability of getting the number 2 is ....

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2. Choose the correct answer:

(1) Which of the following is a random experiment?

a) Tossing a coin. **b)** Rolling a regular die.
c) Choosing a marble from a jar. **d)** All of the previous.

(2) What is the probability of choosing a letter from the English alphabet?

a) $\frac{21}{26}$ **b)** $\frac{5}{26}$ **c)** $\frac{1}{21}$ **d)** $\frac{1}{26}$

(3) A number from 1 to 11 is chosen randomly. What is the probability of choosing an odd number?

a) $\frac{1}{11}$ **b)** $\frac{5}{11}$ **c)** $\frac{6}{11}$ **d)** None of the previous.

(4) A box contains 2 red balls, 5 yellow balls, what is the probability of choosing a red ball?

a) $\frac{2}{5}$ **b)** $\frac{2}{7}$ **c)** $\frac{5}{7}$ **d)** Zero

(5) The sun rises from the east is .... event.

a) a certain **b)** a possible **c)** an impossible **d)** none of the previous

(6) A box, has 4 red balls and 5 yellow balls, if one ball is chosen, then the probability that the picked ball is yellow = ...

a) $\frac{2}{5}$ **b)** $\frac{4}{9}$ **c)** $\frac{1}{4}$ **d)** $\frac{5}{9}$

(7) The probability that an odd number appears on the face of a dice is ....

a) $\frac{1}{2}$ **b)** $\frac{1}{3}$ **c)** $\frac{1}{4}$ **d)** $\frac{1}{6}$

(8) Tarek, picked up a card from 10 cards labelled from 1 to 10, the probability that the picked card is more than 6 is ....

a) $\frac{6}{10}$ **b)** $\frac{1}{2}$ **c)** $\frac{2}{5}$ **d)** $\frac{1}{10}$

(9) A card is picked up from 10 cards labelled from 1 to 10, the probability that the picked card is more than 8 is ....

a) $\frac{1}{5}$ **b)** $\frac{1}{10}$ **c)** $\frac{3}{10}$ **d)** $\frac{8}{10}$

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(10) A class has 12 boys and 8 girls, if one student is chosen from the class, then the probability that this student is a boy is ....

a) $\frac{1}{12}$ **b)** $\frac{2}{5}$ **c)** $\frac{3}{5}$ **d)** $\frac{4}{5}$

(11) If a dice is rolled, then the probability that the upper face is greater than 5 is ....

a) $\frac{1}{6}$ **b)** $\frac{5}{6}$ **c)** $\frac{1}{5}$ **d)** 0

(12) The probability of a certain event = ...

a) 0 **b)** 1 **c)** greater than 1 **d)** 1.5

(13) If a coin is tossed once, then the probability that the upper face will be a head = ...

a) 0 **b)** 1 **c)** $\frac{1}{2}$ **d)** $\frac{3}{4}$

(14) The probability of the appearance of 2 on the face of a dice when it is thrown = ...

a) $\frac{1}{2}$ **b)** $\frac{1}{3}$ **c)** $\frac{1}{6}$ **d)** $\frac{2}{3}$

(15) The probability of the appearance of 7 on the face of a dice when it is thrown = ...

a) $\frac{7}{6}$ **b)** 1 **c)** $\frac{1}{6}$ **d)** 0

(16) The probability of the appearance of a number more than or equal to 4 on the face of a dice when it is thrown = ...

a) 1 **b)** $\frac{1}{2}$ **c)** $\frac{1}{4}$ **d)** $\frac{1}{6}$

---

3. A bag contains 8 black, 4 red and 6 white balls, a ball is chosen randomly, find:

a) The probability of choosing a red ball.
b) The probability of choosing a white ball.
c) The probability of choosing a black ball.
d) The probability of choosing a non-red ball.
e) The probability of choosing a non-black ball.

black	red	white
8	4	6

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4. There are 5 white, 8 red, 7 yellow and 4 green balls in a container. A ball is chosen randomly:

white	red	yellow	green
5	8	7	4

a) What is the probability of choosing a red one?

b) What is the probability of choosing a green one?

c) What is the probability of choosing a black one?

d) What is the probability of choosing either a red or white one?

e) What is the probability of choosing neither white nor green ones?

f) What is the probability of choosing one not that is yellow?

---

5. Using the given cards find the probability of choosing a card carrying:

6 8 6 4 7 4

a) an even number

b) an odd number

c) a prime number

d) the number 6

e) the number 4

f) the number 9

---

6. The opposite spinner has 16 sectors, if the spinner is spun:

a) What is the probability of the arrow landing on 3?

b) What is the probability of the arrow landing on 1 or 5?

c) What is the probability of the arrow landing on an odd number?

d) What is the probability of the arrow landing on an even number?

e) What is the probability of the arrow landing on a prime number?

---

7. A box contains cards numbered from 1 to 10. If one card is drawn randomly, find:

a) The probability of getting a number more than 4

b) The probability of getting a number less than 4

c) The probability of getting a number between 2 and 6

d) The probability of getting an even number.

e) The probability of getting an odd number.






8. **A single 6-sided regular die is rolled. What is the probability of ....?**

a) getting an even number

b) getting an odd number

c) getting a number less than 3

d) getting a number more than 5

e) getting a number between 2 and 5

f) getting the number 8



9. **A month is chosen from a year:**

a) Find the probability of selecting a month with 31 days.

b) Find the probability of selecting a month ending with the letter **Y**.

c) Find the probability of selecting a month ending with the letter **R**.



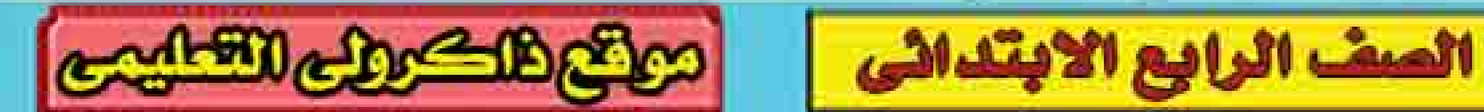
10. **The names of the days of the week are written on cards and one of them is chosen randomly:**

a) Find the probability of choosing Wednesday.

b) Find the probability of selecting a day that starts with the letter **S**.

c) Find the probability of selecting a day that starts with the letter **T**.





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General Exercises on Unit 4

1. Choose the correct answer:

a) The event of (the sun rises from the west) is .... event. (impossible , certain or its probability = 1)

b) The probability of appearance of an odd number on the upper face of a die when it is thrown = ... ($\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{4}$ or $\frac{1}{2}$)

c) The probability of the certain event = ... (zero , 0.5 , 1 or 2)

d) The probability of appearance of a head as throwing a metallic coin = ... (1 , $\frac{1}{2}$, zero or $\frac{2}{3}$)

e) .... is from the methods of collecting data. (Symmetry , Congruence or Observation)

f) The probability of the impossible event = ... (zero , 1 , 0.5 or 0.3)

2. Put the suitable sign (< , = or >):

The probability of the impossible event ◯ the probability of the certain event

3. Complete each of the following:

a) The probability that the sun rises from the east is .... event.

b) The probability of appearance of a head as throwing a metallic coin = ...

c) The probability ofgetting a number (7) when rolling a regular dice is ....

4. Put (✓) or (✗):

In case of throwing a die, the probability of appearance of a number more than 5 is impossible. (   )

5. Answer the following:

a) You have identical cards. You wrote the numbers (1 , 4 , 6 , 8 and 10) on them. If you draw one of these cards blindly, **what is the probability that the drawn card carries a number between (5 and 9)?**

b) A box contains 5 red balls, 3 blue balls and 7 green balls, all are equal in size. If one ball is drawn randomly. **Answer the following questions:**

1) What is the probability that the drawn ball is blue?
2) What is the probability that the drawn ball is not red?
3) What is the probability that the drawn ball is green?
4) What is the probability that the drawn ball is red or blue?

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6. 1) The following table shows the number of pupils participating in school activities:

Activities	Sport	Arts	Cultural
Number of pupils	20	30	40

Represent these data by a histogram.

2) The following table shows the number of pupils in the first four grades in a primary school:

Grades	First	Second	Third	Fourth
Number of pupils	80	70	100	70

Represent these data by a bar line graph.

3) The following table shows the marks of two girls in some of the school subjects:

Subject / Girls	Maths	Science	Social studies	English
The first girl	30	25	30	20
The second girl	20	20	25	15

Represent these data by a double bar chart.

4) The following table shows the money saved by Hossam and Mohamed in pounds within 4 successive weeks.

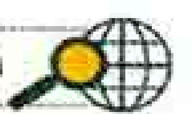
Week / Name	First	Second	Third	Fourth
Hossam	9	4	5	10
Mohamed	7	8	12	3

Represent these data by a double bar chart.

5) The following table shows the number of pupils in the first four grades in a primary school.

Grades	First	Second	Third	Fourth
Number of pupils	55	65	40	70

Represent these data by a histogram.

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Basic Cumulative Skills on Unit (4) (TIMSS)

First — Choose the correct answer in each of the following:

In the opposite figure we have four cards numbered by 4 , 5 , 6 , 7

if we choose blindly one card, then complete:

4 5 6 7

1. It is .... that the number on the card is 8.

   a) possible   b) impossible   c) certain

2. It is .... that the number on the card is 5.

   a) possible   b) impossible   c) certain

3. It is .... that the number on the card is 4 or 5 or 6 or 7.

   a) possible   b) impossible   c) certain

Second — Complete:

4. A letter is selected randomly from the word "boy", then the probability of selecting the letter y is = ...

5. The number of pupils in a class is 35 pupils and the number of boys is 20 and the rest are girls if one pupil from the class is chosen randomly, then the probability that the pupil chosen is a girl = ...

6. A basket contains 9 apples, three apples of them are bad. If you draw an apple blindly from the basket, then the probability of drawing a good apple = ...

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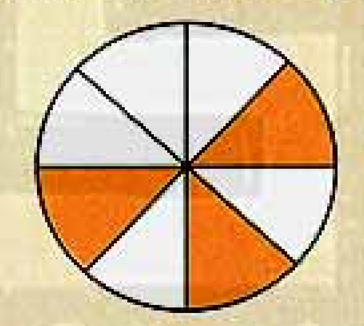


UNIT TEST



1 Choose the correct answer:

1. The sum of probabilities of all possible events .... 1 (> or < or =)
2. The probability of the impossible event = ... (1 or 0 or 2 or less than 1)
3. The probability of getting a tail when tossing a coin once is ....
   (1 or $\frac{1}{2}$ or $\frac{1}{3}$ or 0)
4. The probability that the sun rises from the east is .... event.
   (possible or impossible or certain or otherwise)
5. The probability of the appearence of an even number when throwing a fair die = ... ($\frac{1}{6}$ or $\frac{1}{3}$ or $\frac{1}{2}$ or 1)
6. The probability that the arrow stands on the shaded part = ...



($\frac{1}{3}$ or $\frac{3}{8}$ or $\frac{1}{4}$ or 3)

2 Complete:

1. The probability of appearing of an odd number as throwing a fair die once = ...
2. The propability of certain event = ...
3. The probability of appearing of a prime number when throwing a fair die once = ...
4. The probability of getting a number less than 3 when a die is thrown once =
5. The probability of the appearance of a head when tossing a coin once = ...
6. Among the methods of collecting data are .... , ... and ....

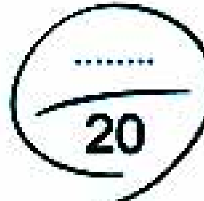
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Unit (1)

Worksheet 1 on Lesson (1A) - Unit (1)




1 *Find the result of the following:*

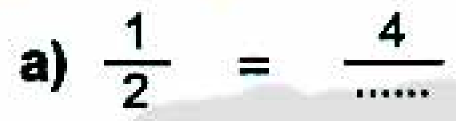
a) $\frac{1}{5} + \frac{2}{5} =$ ....

b) $\frac{3}{8} + \frac{4}{8} =$ ....

c) $\frac{5}{6} - \frac{4}{6} =$ ....

d) $1 - \frac{3}{4} =$ ....

e) $3 - 2\frac{1}{2} =$ ....




2 *Complete each of the following:*

a) $\frac{1}{2} = \frac{4}{......}$

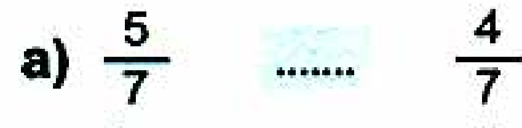
b) $\frac{2}{3} = \frac{......}{15}$

c) $6 = \frac{6}{......}$

d) $4 = \frac{......}{3}$

e) $\frac{9}{27} =$ .... "in the simplest form"

RaNia SaYed




3 *Put the suitable sign (< , = or >):*

a) $\frac{5}{7}$ ...... $\frac{4}{7}$

b) $\frac{3}{5}$ ...... $\frac{3}{4}$

c) 1 ...... $\frac{8}{9}$

d) $\frac{14}{21}$ ...... $\frac{2}{3}$


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4 *Arrange the following in ascending order:* (..../5)

$\frac{3}{5}$, $\frac{2}{5}$, 1 and $\frac{1}{5}$

The order is: .... , ... , ... and ....



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Worksheet 2 Till Lesson (1 B) - Unit (1)



1 Complete each of the following:



a) $\frac{4}{5} = \frac{16}{......}$

b) $3\frac{1}{7} = \frac{.....}{.....}$ "as an improper fraction"

c) $\frac{30}{40} = \frac{.....}{.....}$ "in its simplest form"

d) $\frac{21}{5}$ = ... $\frac{.....}{.....}$ "as a mixed number"

2 Complete each of the following:

a) $3\frac{1}{2} = \frac{.....}{.....}$ "as an improper fraction"

b) $3\frac{7}{11} = \frac{.....}{.....}$ "as an improper fraction"

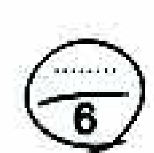
c) $6\frac{2}{5} = \frac{.....}{.....}$ "as an improper fraction"

d) $\frac{61}{10}$ = ... $\frac{.....}{.....}$ "as a mixed number"

e) $\frac{36}{5}$ = ... $\frac{.....}{.....}$ "as a mixed number"

f) $\frac{24}{7}$ = ... $\frac{.....}{.....}$ "as a mixed number"

3 Arrange the following in descending order:



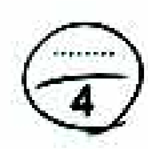
a) $\frac{11}{15}$, $\frac{2}{3}$, $\frac{1}{15}$ and $\frac{4}{5}$

The order is: .... , ... , ... and ....

b) $\frac{1}{4}$, $\frac{2}{3}$, $\frac{1}{2}$ and $\frac{5}{6}$

The order is: .... , ... , ... and ....

4 Put the suitable sign (< , = or >):



a) $8\frac{1}{2}$ .... $\frac{17}{2}$

b) $\frac{6}{5}$ .... $\frac{6}{7}$

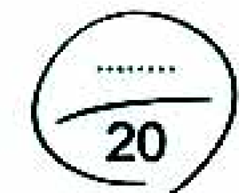
c) $\frac{3}{2}$ .... $\frac{1}{2}$

d) $\frac{2}{5}$ .... $\frac{1}{4}$

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Worksheet 3 — Till Lesson (1 C) - Unit (1)


$\frac{\dots}{20}$

1 Choose the correct answer:

$\frac{\dots}{4}$

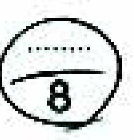
a) $\frac{1}{2} + \frac{1}{5}$ = ... ($\frac{2}{7}$ or $\frac{3}{5}$ or $\frac{7}{10}$ or $\frac{9}{10}$)

b) $\frac{7}{8} - \frac{3}{4}$ = ... ($\frac{1}{4}$ or $\frac{1}{8}$ or $\frac{4}{8}$ or 1)

c) $\frac{32}{40}$ = ... "in the simplest form" ($\frac{4}{5}$ or $\frac{8}{10}$ or $\frac{12}{15}$ or $\frac{1}{3}$)

d) $6\frac{2}{7}$ = ... ($\frac{38}{7}$ or $\frac{40}{7}$ or $\frac{42}{7}$ or $\frac{44}{7}$)

2 Find the result of each of the following:


$\frac{\dots}{8}$

a) $\frac{3}{5} + \frac{2}{3}$ = ...

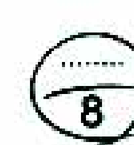
b) $2\frac{1}{5} - \frac{2}{3}$ = ...

c) $6\frac{2}{7} + 3\frac{1}{5}$ = ...

d) $3\frac{5}{6} - 1\frac{3}{4}$ = ...

3


a) Find the result of the following $(7\frac{2}{3} - 1\frac{1}{4}) + 2\frac{1}{6}$


$\frac{\dots}{8}$

....

....

b) If Amir has L.E. 50 and Eman has L.E. $35\frac{1}{2}$, find the difference between what they have.

....

....

c) Ali had L.E 20, he bought a pen for L.E $6\frac{1}{4}$ and a book for L.E $12\frac{1}{3}$.

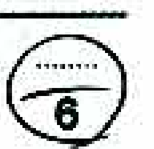
Find the remainder with Ali.

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Worksheet 4 — Till Lesson (2) - Unit (1)



1 Complete each of the following:



a) 28.75 = 0.05 + ... + 8 + ...

b) $3\frac{1}{4}$ = ... "as an improper fraction"

c) $9 + 2\frac{1}{2}$ = ...

d) Forty six thousandths = ... "in digits"

e) The place value of 7 in 2.375 is ....

2 a) Complete each of the following:

1) 0.7 + 0.09 + 0.001 + 197 = ...

2) The place value of 8 in 2.865 is ....

b) Find the value of the digit 7 in each of the following:

1) 5.007 2) 3.752

3) 9.071 4) 572.03

3 Arrange the following numbers descendingly:



$6\frac{1}{4}$, $6\frac{2}{5}$, $6\frac{1}{2}$ and $5\frac{7}{10}$

The order is: .... , ... , ... and ....

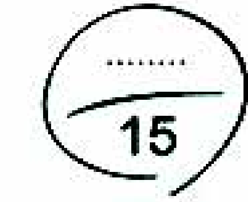
اكتب ذاكرولي في البحث وانضم لجروبات ذاكرولي
من رياض الاطفال للصف الثالث الاعدادي



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Worksheet 5 — Till Lesson (3) - Unit (1)



1 Choose the correct answer:

a) $2\frac{1}{3}$ = ... ($\frac{5}{3}$ or $\frac{6}{3}$ or $\frac{7}{3}$ or $\frac{8}{3}$)

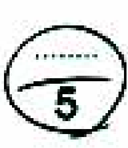
b) $\frac{5}{10}$ = ... (0.5 or 0.05 or 0.005 or 0.0005)

c) 26.70 = ... ($\frac{267}{10}$ or $\frac{267}{100}$ or $\frac{267}{1000}$ or otherwise)

d) 0.1 < .... < 0.2 (0.3 or 0.12 or 0.02 or 0.03)

e) $3\frac{3}{4} + 1\frac{1}{2}$ = ... ($4\frac{1}{4}$ or $4\frac{2}{3}$ or $5\frac{1}{4}$ or $5\frac{1}{2}$)

2 (a) Complete each of the following:



1) $7\frac{3}{5}$ = ... (in decimal form)

2) 0.19 = ... hundredths

3) The value of 9 in 0.79 is ....

(b) Complete with whole numbers such that the difference between them is as small as possible.

1) .... < 8.04 < ....   2) .... < 0.92 < ....

3 Put the suitable sign (< , = or >):



a) 5.81 .... 5.75   b) 41.6 .... 14.9

c) 9.07 .... 9.1   d) 0.43 .... 0.034

e) 1.3 .... $1\frac{1}{2}$ f) 30 .... 3 tenths



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Worksheet 6 Till Lesson (4) - Unit (1)



1 Choose the correct answer:



a) $4\frac{3}{5}$ = ... (4.45 or 4.6 or 4.3 or 4.4)

b) The value of the digit 3 in the number 59.34 is .... (3 or 30 or 0.3 or 0.03)

c) 9.75 = ... ($\frac{975}{10}$ or $\frac{39}{4}$ or $\frac{975}{1000}$ or otherwise)

d) 0.15 < .... < 0.16 (0.65 or 0.55 or 0.015 or 0.153)

e) 50 hundredths .... 5 tenths. (< or = or > or ≤)

2 Complete each of the following:

a) $5\frac{3}{8}$ = ... "in the decimal form"

b) 7.08 = ... $\frac{......}{......}$

c) 10 – 5.7 = ...

d) The value of the digit (7) in the number 2.17 is ....

e) .... + 29.35 = 50

3 Find the result of each of the following:



a) 12.15 + 79.532

b) 617.8 – 113.567

c) 25.3 + 17.46 + 5.26

d) 75350 ÷ 1000

e) 835 ÷ 10

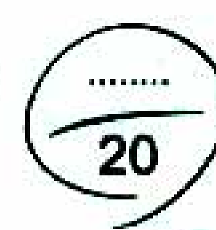
f) 8657 ÷ 100

4 Peter has P.T. 475 and his friend Ali has L.E. 3.5. How many pounds do they have together?




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Worksheet 7 Till Lesson (5) - Unit (1)



1 Complete each of the following:



a) 1 = 0.4 + ………………

b) 86.7 − 13.4 = ………………

c) 9382 ≃ ……………… (to the nearest ten)

d) 4357 ≃ ……………… (to the nearest hundred)

e) 6843 ≃ ……………… (to the nearest thousand)

2 Choose the correct answer:

a) The value of the digit (7) in the number 123.579 is …………… (7 or 70 or 700 or 0.07)

b) 5948 ≃ 6000 (to the nearest ………………) (10 or 100 or 1000 or 10000)

c) $\frac{64}{80}$ = ……………… (0.8 or 0.08 or 0.008 or 80)

d) 42819 ÷ 100 = ……………… (42.819 or 428.19 or 4281.9 or 42819)

e) $\frac{1}{3} + \frac{1}{4}$ = ……………… ($\frac{2}{7}$ or $\frac{7}{12}$ or $\frac{11}{12}$ or 1)



3 Approximate each of the following:

a) 5675.4 (to the nearest 10)

b) 70546.4 (to the nearest 100)

c) 12736.25 (to the nearest 1000)

d) 8127 (to the nearest 10 000)

4 Find the result, then approximate it:



a) 7235 + 7069 = ……………… ≃ ……………… (to the nearest 1000)

b) 897.8 − 13.2 = ……………… ≃ ……………… (to the nearest 100)

c) 26.32 − 1.27 = ……………… ≃ ……………… (to the nearest 10)



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Worksheet 8 — Till Lesson (6) - Unit (1)



.... / 20

1 Complete each of the following: (........ / 8)

a) 0.4 + ... = 0.9

b) 63.6 ≃ .... (to the nearest unit)

c) $4\frac{17}{20}$ ≃ .... (in the decimal form)

d) 9.345 ≃ .... (to the nearest tenths)

e) 0.273 = 0.☐ + 0.☐☐ + 0.☐☐☐

f) 7.98 + 12.237 = ... ≃ .... (to the nearest $\frac{1}{10}$)

g) 24.05 − 4.97 = ... ≃ .... (to the nearest unit)

h) 28437 ÷ 100 = ... ≃ .... (to the nearest 100)

2 Choose the correct answer: (........ / 4)



a) $5\frac{1}{4}$ = ... (5.4 or 5.25 or 5.1 or 0.54)

b) $\frac{23}{2}$ = ... (11.5 or 11.2 or 11.05 or 11.02)

c) $\frac{64}{80}$ = ... (6.4 or 0.8 or 0.08 or 0.008)

d) $1\frac{7}{100}$ = ... (0.17 or 1.007 or 1.07 or 1.7)

3 Approximate each of the following: (........ / 6)



a) 788 (to the nearest 10)

b) 16.56 (to the nearest 0.1)

c) $10\frac{2}{5}$ (to the nearest whole number)

d) 1549.7 (to the nearest 1000)

e) 19.75 pounds (to the nearest pound)

f) 3385 m (to the nearest km)

4 Arrange the following numbers in ascending order: (........ / 2)

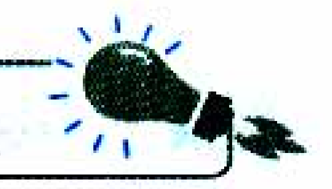


3.25 , 32.5 , 0.325 , 3.52 and 35.2

The order is: .... , ... , ... , ... and ....

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Unit 1 — Test (1)



1 Choose the correct answer from those between brackets:

1) The value of the digit (6) in the number 19.56 is .... (6 or 60 or 0.06 or 600)

2) $1\frac{3}{4}$ = ... (1.75 or 0.75 or 0.075 or 0.75)

3) 39 .... 9 + 0.3 (< or > or = or otherwise)

4) 0.4 .... 0.7 – 0.30 (< or > or = or otherwise)

5) Six and forty three hundredth = ... (64.3 or 6.43 or 0.643 or 6.4)

6) 0.3 + ... = 1 (0.2 or 0.07 or 0.7 or 7)

7) $3\frac{7}{1000}$ = ... (3.7 or 3.07 or 3.007 or 3.0007)

8) 59.9 ≃ 60 to the nearest .... (hundredth or tenth or unit or $\frac{1}{1000}$)

9) 67 + 100 = ... (6.7 or 0.67 or 0.76 or 670)

2 Complete each of the following:

10) 26.08 ≃ .... (to the nearest tenth)

11) 251056 ≃ 251100 to the nearest ....

12) 7 + 0.7 + 0.03 + 0.009 = ...

13) The place value of 9 in the number 23.69 is ....

3 Find the result:

14) 95.7 – 62.31 ≃ .... (to the nearest $\frac{1}{10}$)

15) 20819 + 10000 ≃ .... (to the nearest unit)

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Unit 1 Test (2)

1 Choose the correct answer from those between brackets:

1) $354\frac{2}{5} \simeq$ .... to the nearest whole number. (35.4 or 354 or 355 or 353)

2) The number $\frac{19}{6}$ = ... ($3\frac{1}{2}$ or $3\frac{1}{6}$ or 3.2 or 3.3)

3) The value of the digit(6) in the number 0.46 is .... (0.06 or 0.6 or 6 or 60)

4) The number 4.7 = 0.7 + ... (4.1 or 7 or 0.1 or 4)

5) Sixty three and two tenths is written as .... (6.32 or 63.2 or 6.321 or 3.6)

6) 5.7 + 1.44 .... 5.7 – 3.4 (< or > or = or otherwise)

7) 23.7 = ... ($\frac{237}{10}$ or $34\frac{7}{10}$ or $2\frac{37}{100}$ or $2\frac{37}{1000}$)

8) 45.26 ≃ 45.3 to the nearest .... (tenth or unit or ten or hundred)

9) 7.3 + 4.06 = ... (11.36 or 13.3 or 21.36 or 21.9)

2 Complete each of the following:

10) 0.9 ÷ .... = 1

11) 12.7 + 10.07 = ... ≃ .... (to the nearest 0.1)

12) 456 + 100 = ... ≃ .... (to the nearest unit)

13) 4.7 – 2.05 = ...

3 Find the result:

14) If Amr has 533 pounds and his brother has 95.45 pounds.Find the difference between what they have to the nearest pound.

15) Arrange the following numbers in ascending order: 0.35 , 5.4 , $3\frac{1}{2}$, 0.53.

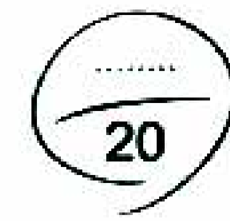
The order is: .... , ... , ... , ... and ....



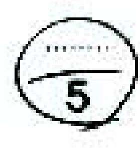
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Unit (2)

Worksheet 9 — Till Lesson (1) - Unit (2)



1 Complete each of the following:



a) $3\frac{1}{2}$ = ... (in the decimal form)

b) Three and twenty five hundredths = ... (in digits form)

c) 8.21 + 6.24 ≃ .... (to the nearest tenths)

d) Two squares are congruent if the side length of one of them is equal to ....

e) The diagonal of the rectangle divides it into two .... triangles.

2 If the polygon ABCD ≡ the polygon XYZL, complete:



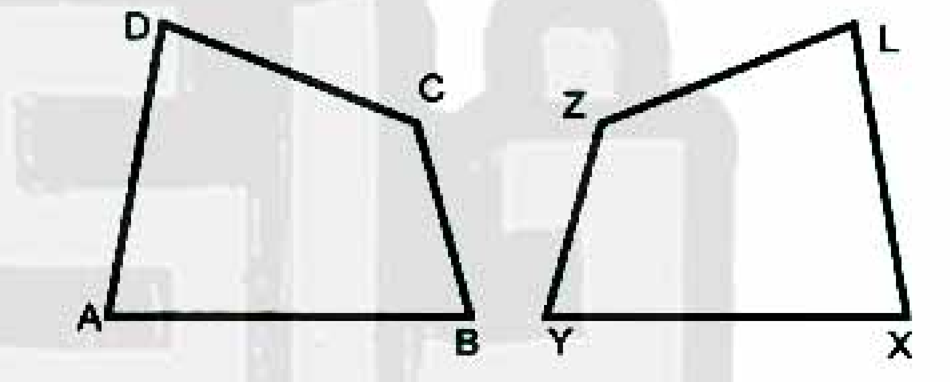
a) $\overline{AB}$ ≡ ....

b) $\overline{BC}$ ≡ ....

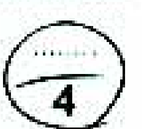
c) $\overline{AD}$ ≡ ....

d) m (∠ X) = m (∠.......)

e) m (∠ C) = m (∠.......)



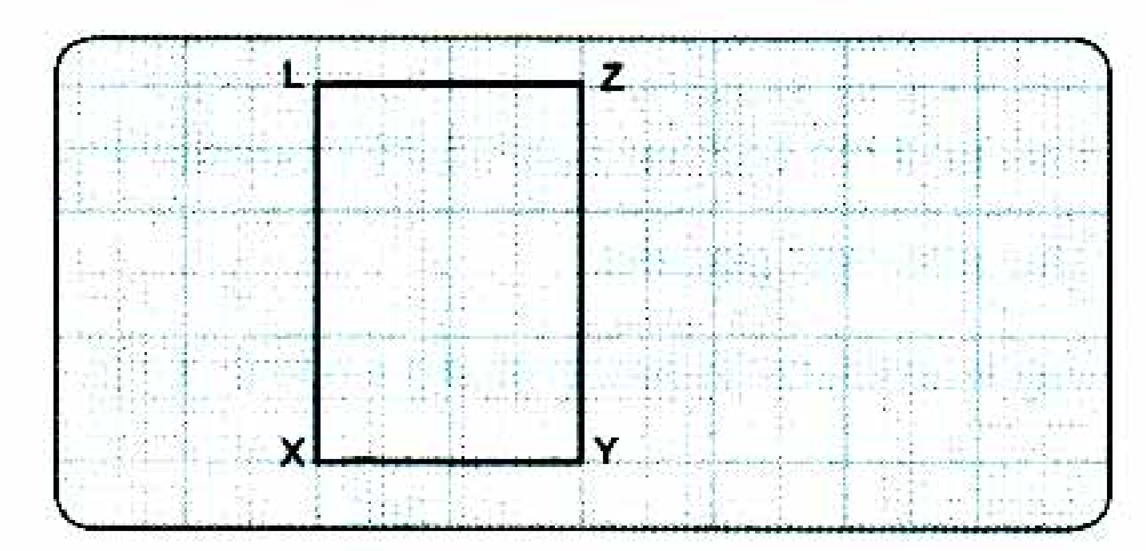
3 Write the place value of the circled digits:



3.②56 , 53.2⑧ , 7.63② , ⑧.423

4 Draw the rectangle ABCD to be congruent to the rectangle XYZL.





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Worksheet 10 — Till Lesson (2) - Unit (2)



1 Choose the correct answer:

5

a) 2834.5 ÷ 10 ≃ 280 (to the nearest ....) (unit or 10 or 100 or 1000)

b) The rectangle has .... line(s) of symmetry. (0 or 1 or 2 or 3)

c) The decimal number .... lies between 2.8 and 2.9. (2.87 or 2.78 or 2.09 or 2.19)

d) $8\frac{2}{5} = \frac{\cdots\cdots}{\cdots\cdots}$ ($\frac{42}{15}$ or $\frac{10}{15}$ or $\frac{10}{5}$ or $\frac{42}{5}$)

e) The square has .... line(s) of symmetry. (1 or 2 or 3 or 4)

2 Complete each of the following:



a) 784 + 368 ≃ .... (to the nearest hundred)

b) A square of side length 9 cm is congruent to another square of perimeter .... cm.

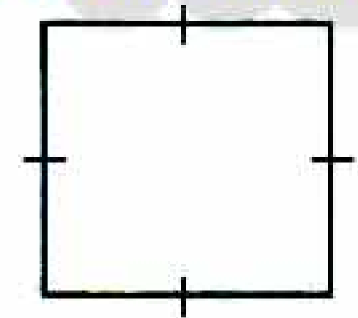
c) The greatest whole number that if approximated to the nearest ten gives 8000 is ....

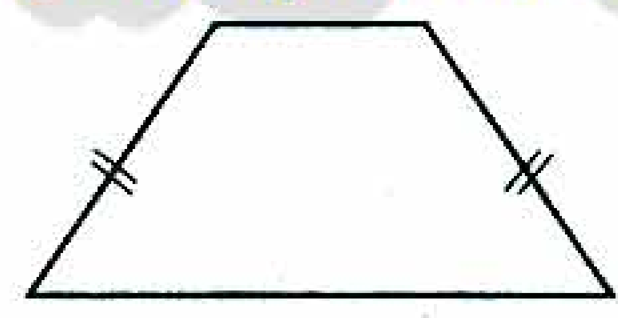
d) 7.583 = 7 + 0.▢ + 0.08 + 0.▢▢▢

e) The isosceles triangle has .... line(s) of symmetry.

3 Draw all lines of symmetry for the following shapes:







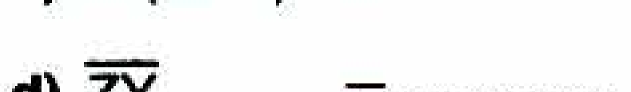
4 In the opposite figures, if Δ XYZ ≡ Δ ABC, then complete:



4

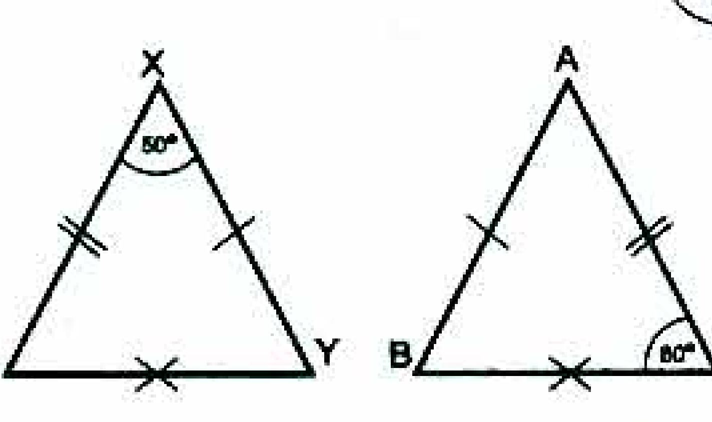


a) m (∠A) = ...° b) m (∠ Z) = ...°

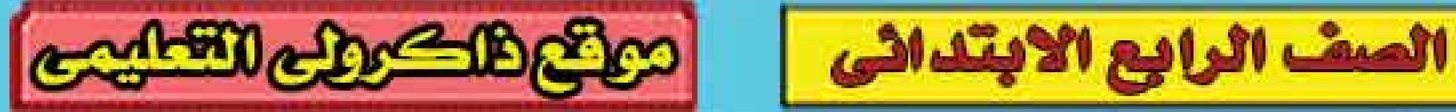




c) CA = ... d) $\overline{ZY}$ ≡ ....





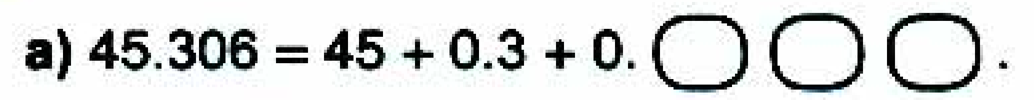


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Worksheet 11 — till Lesson (3) - Unit (2)



1 Choose the correct answer: (5)



a) 45.306 = 45 + 0.3 + 0.◯◯◯ . (6 or 0.6 or 0.06 or 0.006)

b) ▭ □ ▭ □ .... (in the same pattern) (▭ or □ or △ or ◯)

c) 2.1 < .... < 3 (1.978 or 2.02 or 3.01 or $2\frac{1}{4}$)

d) The value of the digit (5) in the number 17.065 is .... (50 or 5 or 0.05 or 0.005)

e) The next term in the pattern A, AB, ABB is .... (A or AB or ABBB or B)

2 Complete each of the following: (5)



a) 1.5 , 2 , 2.5 , 3 , ... (in the same pattern)

b) 87054 ≃ 87000 (to the nearest ....)

c) The number of lines of symmetry of the square is ....

d) 36.7= 36+ 0.◯

e) The next term in the pattern xy, xxyy, xxxyyy is ....



3 Put the suitable sign (< , > or =): (5)

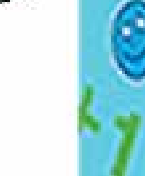
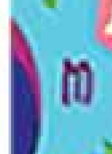
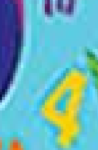
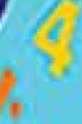
a) $\frac{5}{8}$ 0.625

b) 445 ÷ 10 ...... 4450 ÷ 100

c) Twenty nine thousands ...... ninety two thousandths.

d) The number of lines of symmetry of the rhombus ...... the number of lines of symmetry of the square.

e) $4\frac{1}{6}$ ...... $\frac{25}{6}$

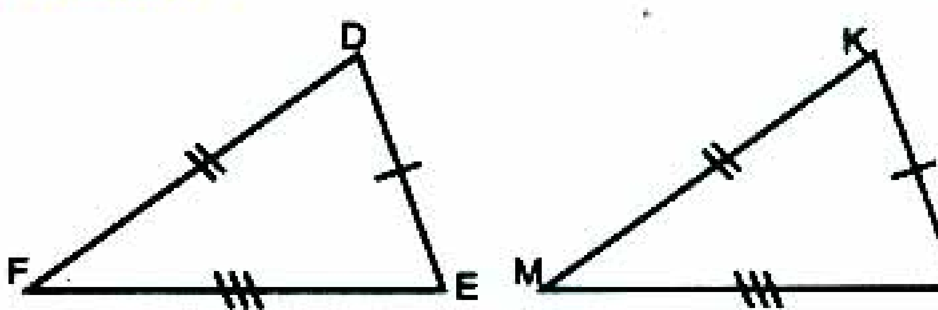
4 In the opposite figures , if △ DEF ≡ △ KLM: (5)

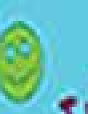
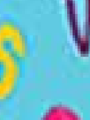
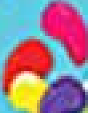
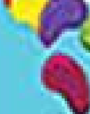


Complete (a) $\overline{KL}$ = ..., (b) $\overline{DF}$ = ...



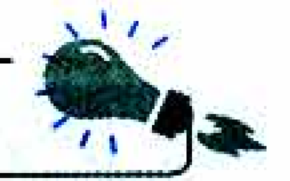
(c) ∠ E = ∠...... (d) ∠ F = ∠......




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Unit 2 Test (1)

1 Choose the correct answer from those between brackets:

1) The equilateral triangle has .... line(s) of symmetry. (0 or 1 or 2 or 3)

2) The isosceles trapezium has .... line(s) of symmetry. (0 or 1 or 2 or 3)

3) The rectangle has .... line(s) of symmetry. (0 or 1 or 2 or 3)

4) If $\Delta ABC \equiv \Delta XYZ$, then $\angle Y \equiv \angle$ .... (X or C or B or Y)

5) If the Δ DEF $\equiv$ the ΔXYZ, then EF = ... (XY or YX or YZ or XZ)

6) The number of line(s) of symmetry of the rhombus .... the number of line(s) of symmetry of the rectangle. (< or > or = or ≤)

7) For the congruency of two triangles their .... are congruent.

(sides or two angles or two sides or angle and side)

2 Complete each of the following:

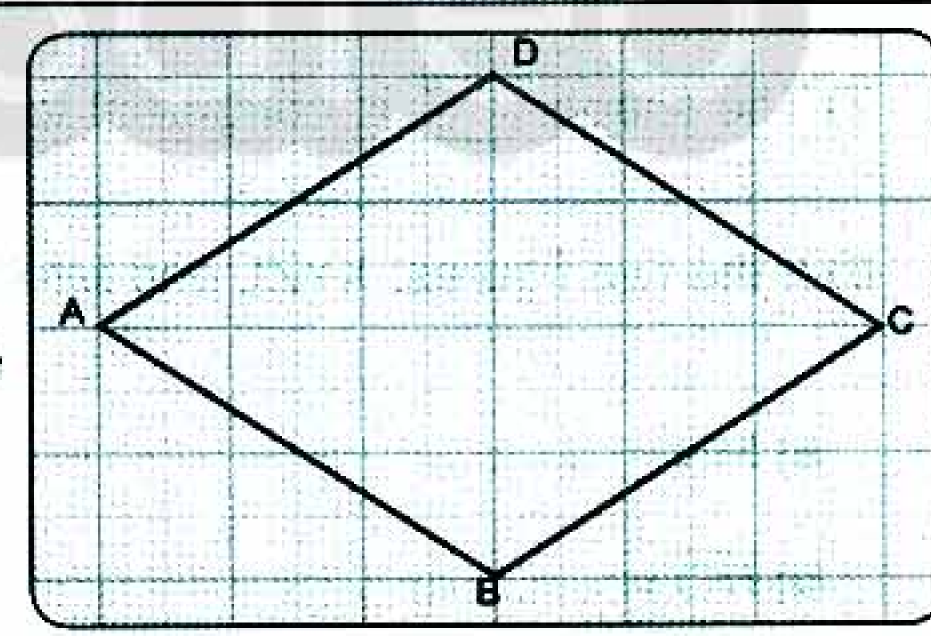
8) Two polygons are congruent if their corresponding sides and their corresponding angles are ....

9) The number of lines of symmetry of the scalene Δ is ....

10) Two polygons are congruent if their corresponding sides are .... in length and their corresponding angles are .... in measure.

11) The diagonal in the parallelogram divides it in two .... triangles.

3 Find the result:



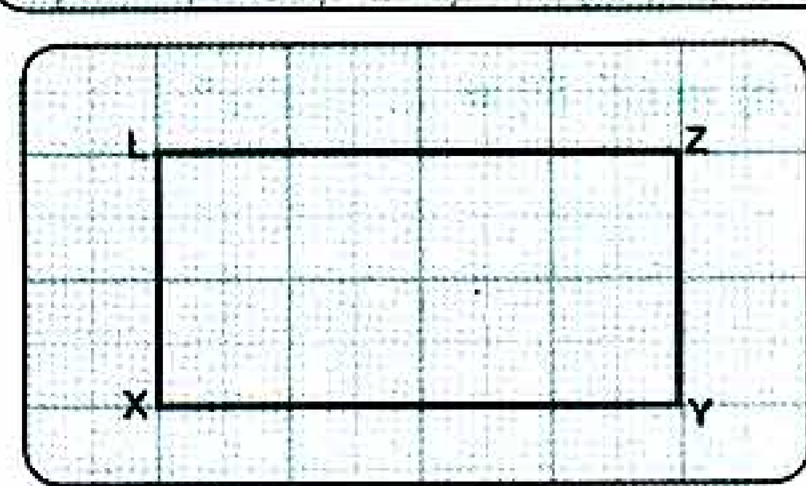
12) **From the opposite figure:**

a) What is the figure ABCD called? ....

b) How many lines of symmetry does the opposite figure have?

c) **Complete:** AB = ... = ... = ...

$\overline{BD}$ .... $\overline{AC}$ and $\overleftrightarrow{BD}$ .... $\overleftrightarrow{AC}$

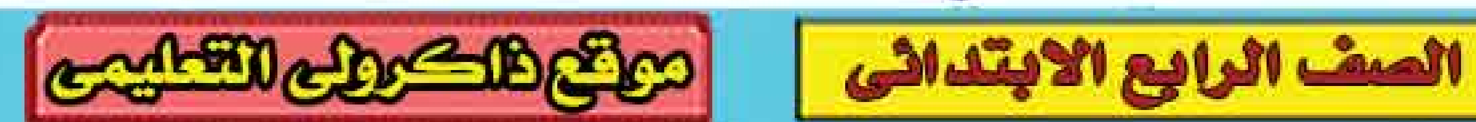


13) **From the opposite figure:**

a) What is the name of the figure XYZL?

b) Draw a line to divide the figure into two congruent parts.

c) How many lines of symmetry does the figure XYZL have?



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Unit 2 Test (2)

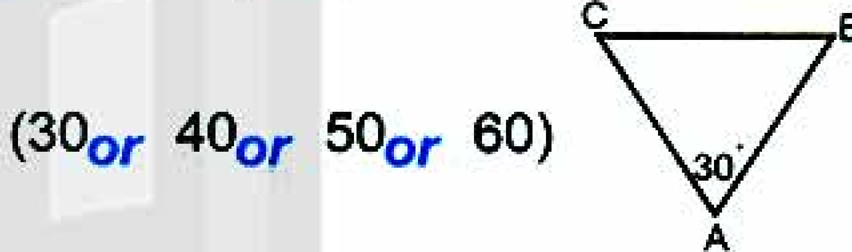
1 Choose the correct answer from those between brackets:

1) If Δ ABC ≡ ΔXYZ, then AB – XY = ... (AB or XY or BA or Zero)

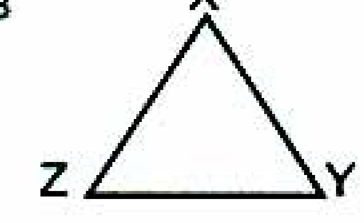
2) The square has .... line(s) of symmetry. (1 or 2 or 3 or 4)

3) The isosceles Δ has .... line(s) of symmetry. (0 or 1 or 2 or 3)

4) In the opposite figures: Δ ABC ≡ ΔXYZ, then m(∠X) = ... °



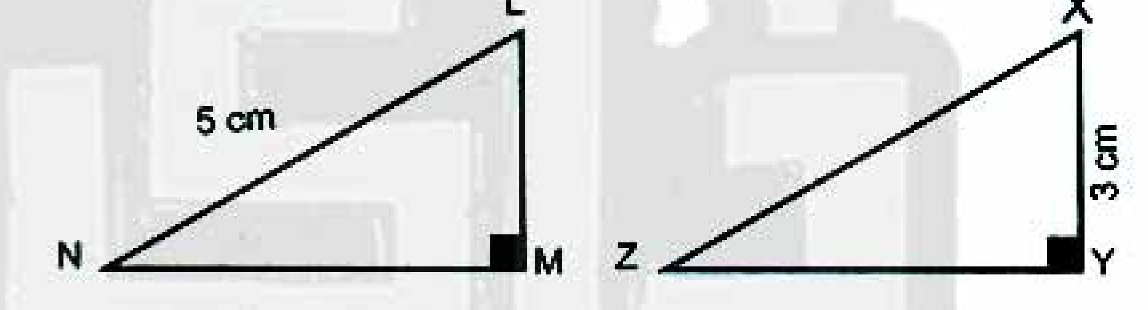
(30 or 40 or 50 or 60)



5) In the opposite figure: Δ XYZ ≡ Δ LMN, then:

LM = ...cm (3 or 5 or 4 or 0)

XZ = ... cm (3 or 5 or 4 or 0)



6) The number of axes of symmetry of the parallelogram is .... (0 or 1 or 2 or 3)

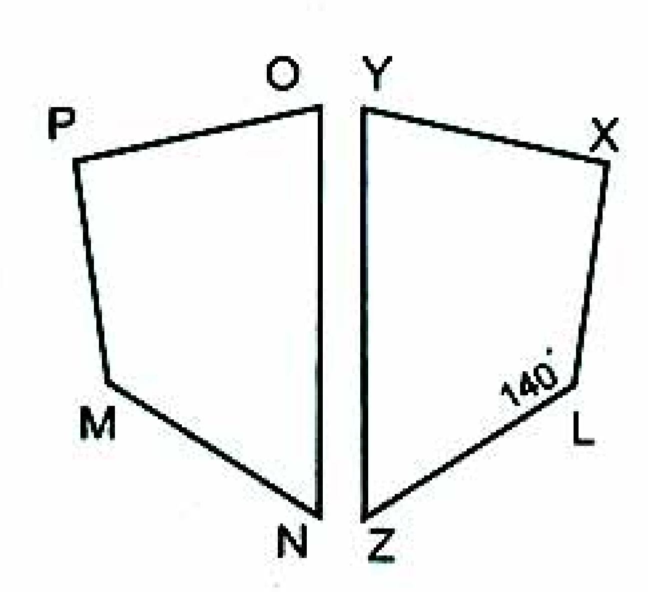
7) The shape ⏢ is congruent to .... (▭ or ▭ or △ or ⏢)

8) If the two figures: XYZL and MNOP are ≡ , then complete:

a) MN = ...

b) $\overline{NO}$ ≡ ....

c) m (∠ P) ≡ .... °



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2 Complete each of the following:

9) If the two polygons XYZLM and ABCDE are congruent and ZL = 3.5 cm, then .... = 3.5 cm

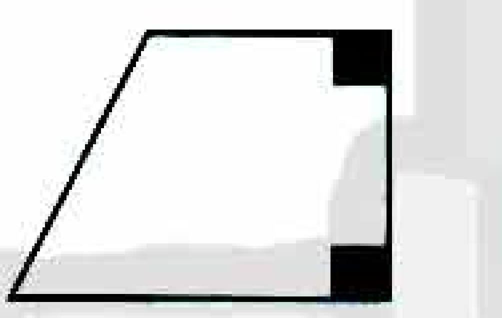
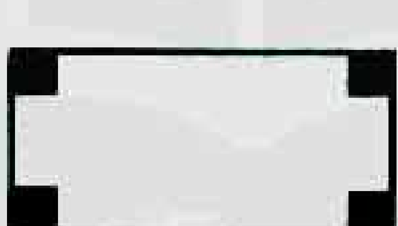
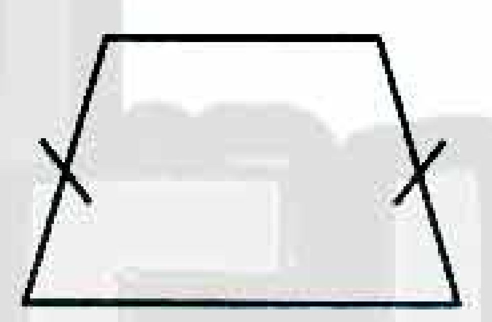
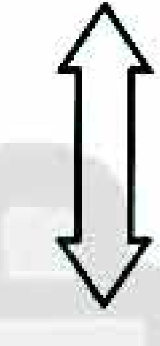
10) The equilateral Δ has .... line(s) of symmetry.

11) The parallelogram has .... line(s) of symmetry.

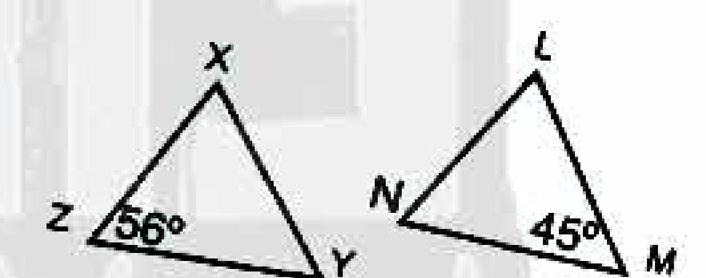
12) The equality of the corresponding sides lengths of two triangles is enough to consider them ....

3 Find the result:

13) In each of the following figures draw all the line of symmetry if it exists.

14) In the opposite figures: Δ LMN ≡ ΔXYZ, then complete:



a) $\overline{XZ}$ ≡ ....

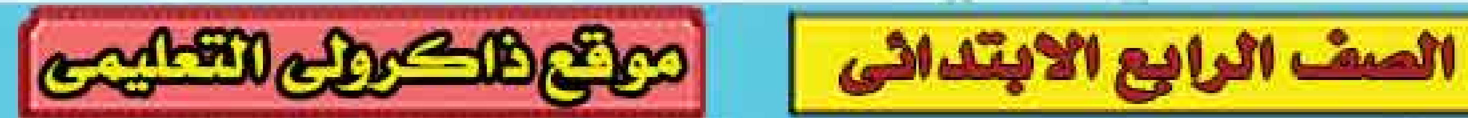
b) ∠L ≡ ∠ ....

c) m (∠Y)=m (∠.............) = ...°

d) m (∠X)= .... °





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Unit (3)

Worksheet 12 — Till Lesson (1) - Unit (3)



1 Choose the correct answer:



a) $5\frac{7}{100}$ = ... (5.7 or 5.07 or 5.007 or 7.05)

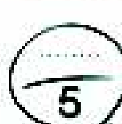
b) $4\frac{7}{10}$ + 3.07 = ... (7.14 or 7.4 or 7.77 or 10.14)

c) The isosceles triangle has .... line(s) of symmetry. (1 or 2 or 3 or 4)

d) 6.5 litres = ... mL. (65 or 605 or 650 or 6500)

e) 500 mL = ... litre. ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$ or 1)

2 Complete each of the following:



a) 14.201 + 9.315 = ... ≃ .... (to the nearest tenth)

b) 2 dm^3 = ... litres.

c) $2\frac{2}{9} + 3\frac{1}{5}$ = ...

d) 75 ÷ 1000 = ...

e) 90 litres = ... mL.

3 Put the suitable sign (< , > or =):



a) 25.6 .... 256 ÷ 100

b) $\frac{8}{9}$ 1

c) $\frac{3}{4}$ litre .... 750 dm^3

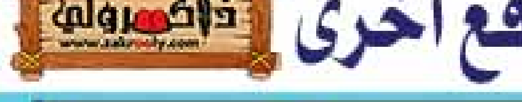
d) 3.13 + 2 .... 5.131

e) 1.25 litres .... 125 millilitres

4 Arrange the following capacities in ascending order:

750 mL, $\frac{1}{2}$ L, 2 dm^3 and 1250 mL

The order is: .... , ... , ... and ....


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Worksheet 13 — Till Lesson (2) - Unit (3)



1 Complete each of the following: (5)

a) $\frac{9}{2}$ = ... (in mixed form).

b) The place value of the digit 9 in 3.159 is ....

c) $13\frac{1}{5}$ = ... (in decimal form).

d) 2 kg = ... gm.

e) The parallelogram has .... line(s) of symmetry.

2 Choose the correct answer: (5)

a) $7\frac{1}{3}$ as an improper fraction is .... ($3\frac{1}{7}$ or $\frac{7}{3}$ or $\frac{11}{3}$ or $\frac{22}{3}$)

b) 40 litres = ... mL. (4000 or 40000 or 40 or 0.04)

c) .... kg = 3000 gm. (3 or 30 or 300 or $\frac{7}{3}$)

d) The weight of a rabbit is .... (3 tons or 3 kg or 30 kg or 30 gm)

e) The rectangle has .... line(s) of symmetry. (1 or 2 or 3 or 4)

3 Find the result of the following: (6)

a) $3\frac{3}{4}$ kg + 250 gm = ... kg.

b) $\frac{1}{2}$ litre + $\frac{3}{4}$ dm^3 = ... litre(s).

c) $1\frac{1}{4}$ ton + 750 kg = ... tons.

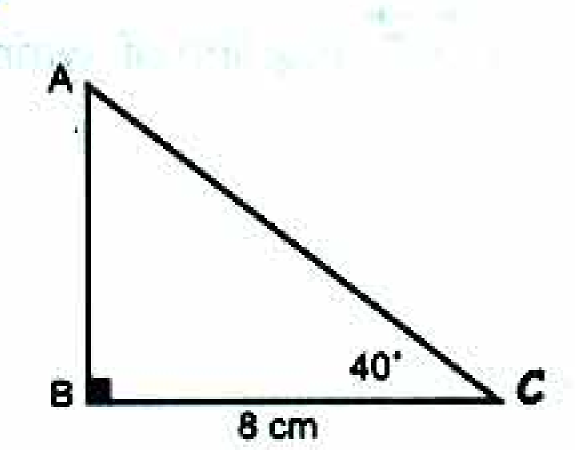
4 If △ ABC ≡ △ DEF, then complete: (4)

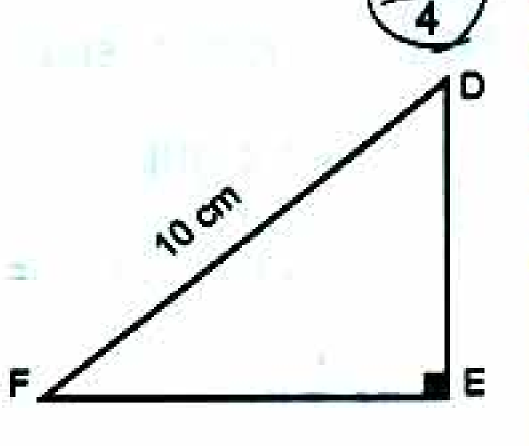
a) FE = ... cm

b) ∠ B ≡ ∠ ....

c) $\overline{AB}$ ≡ ....

d) m (∠ D) = m (∠ ....) = ...°





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Worksheet 14 Till Lesson (3) - Unit (3)



1 Complete each of the following:

5

a) 5000 mL = ... litres
b) 3000 kg = ... tons.
c) $\frac{1}{3}$ of a day = ... hours.
d) 500 mL = ... litres.
e) 120 seconds = ... minutes.

2 Choose the correct answer:

5

a) $\frac{1}{4}$ of a kilogram and 375 grams = ... grams. (625 or 400 or 380 or 250.25)
b) 250 tons = ... kg. (0.25 or 2500 or 25000 or 250000)
c) 3 hours = ... minutes. (36 or 72 or 108 or 180)
d) 20 litres = ... mL. (20000 or 2000 or 200 or 0.02)
e) 3600 seconds = ... hour(s). (2 or 1 or 15 or 0.5)

3 Put the suitable sign (< , > or =):



a) 6205 kg .... $6\frac{1}{4}$ tons.
b) $2\frac{1}{2}$ litres .... 2050 mL.
c) 72 hours .... three days.
d) 750 gm .... $\frac{1}{2}$ kg.
e) $\frac{1}{4}$ litre .... 1500 mL.

4 Arrange each of the following in ascending order:

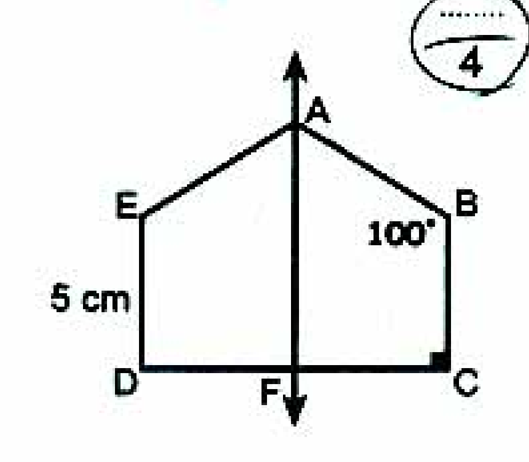


a) 1 week , $\frac{1}{2}$ a day , 3600 seconds , 20 minutes and 72 days
b) $\frac{1}{2}$ ton , 400000 gm , 700 kg , 875 kg and $\frac{1}{4}$ ton

5 In the opposite figure, if $\overleftrightarrow{AF}$ is a line of symmetry of the polygon ABCDE,

4

then complete:



a) m (∠ D) = ...°
b) m (∠ E) = ...°
c) $\overline{BC}$ ≡ ....
d) $\overline{DF}$ ≡ ....



Unit 3 Test (1)



1 Choose the correct answer from those between brackets:

1) The measuring unit of capacity is .... (kg or hour or litre)

2) $2\frac{1}{2}$ kg .... 2500 gm. (> or < or =)

3) 2 days = ... hours. (48 or 72 or 96)

4) 39 days = ... (to the nearest week) (5 or 6 or 7)

5) The unit of measuring time is .... (m or day or gm or litre)

6) 1 L = ... mL (1000 or 10 or 10 000 or 100)

7) 4.5 tons = ... kg (45 or 54 or 4500 or 5400)

8) 5 litres = ... cm^3 (50 or 500 or 5000 or 5500)

9) 750 grams = ... $\frac{1}{2}$ kg (> or < or = or otherwise)

2 Complete each of the following:

10) 72 hours .... 3 days (put < or > or =)

11) $\frac{1}{4}$ of a day = ... hours.

12) 2 tons = ... grams

13) $\frac{1}{4}$ litres = ... millilitres

14) 35 dm^3 = ... mL

15) 54 hours = ... $\frac{.....}{.....}$ days (mixed number)

3 Find the result:

16) Arrange the following in descending order: 8 L, 9000 mL , 5 dm^3 and 6500 cm^3

The order is: .... , ... , ... and ....

17) Arrange the following in ascending order: 10 hours, $\frac{1}{2}$ day , 20 minutes

The order is: .... , ... and ....

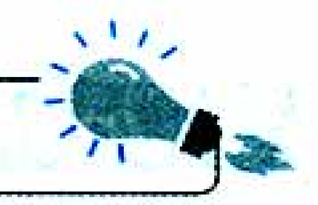
18) Put the suitable sign (< or = or >):

(1) One day  15 hours.

(2) 200 millilitres .... 2 litres.

(3) 4 pounds .... 375 piastres.

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Unit 3 Test (2)

1 Choose the correct answer from those between brackets:

1) 3 litres .... 3000 dm³ (> or < or =)

2) Two and half hours .... 150 minutes. (> or < or =)

3) 2000 millilitres .... 2000 centimetres (> or < or =)

4) 520 kg .... 5000 gm (> or < or =)

5) 4 750 millilitres = ... (475 litres or 45 $\frac{1}{2}$ litres or 4 $\frac{3}{4}$ litres)

6) $\frac{2}{3}$ of a day = ... hours. (16 or 15 or 6 or 18)

7)14 days and 4 weeks = ... weeks. (4 or 5 or 6)

8) 3750 cm = ... metres. (3.75 or 373 or 375000 or 37.5)

9) The litre is the capacity of a vessel in the shape of a cube with edge length ....
(1 cm or 10 cm or 100 cm or 1 dcm³)

2 Complete each of the following:

10) 25 days ≃ .... weeks

11) 2345 grams ≃ .... kilograms

12) $\frac{1}{2}$ litre = ... cm³

13) One minute = ... seconds

14) $\frac{1}{2}$ km = ... metres

15) The litre = ... millilitres

3 Find the result:

16) **Arrange the following in ascending order:**

4 litres, 5200 millilitres , 4.5 dm³ and 4700 millilitres

The order is: .... , ... , ... , ...

17) **Arrange ascendingly:** a kilogram, a ton and a gram

The order is: .... , ... , ...

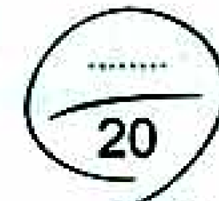
16) **Arrange the following in ascending order:** 8740 kilograms, 9 tons and 8740 grams

The order is: .... , ... , ...



Unit (4)

Worksheet 15 — Till Lesson (1) - Unit (4)



1 Complete each of the following:

(..... / 5)

a) 3214.12 – 2458.8 = ... ≃ .... (to the nearest unit)

b) .... ÷ 1000 = 54.173

c) The square has .... line(s) of symmetry.

d) $3.2 = 3\frac{\dots\dots}{5}$

e) +, –, ×, ÷, +, –, ... (in the same pattern)

2 Choose the correct answer:

(..... / 5)

a) 2834.5 10 = 2830 (to the nearest ....). (unit **or** 10 **or** 100 **or** 1000)

b) The rectangle has .... line(s) of symmetry. (0 **or** 1 **or** 2 **or** 4)

c) 9 750 kg = ... tons. (9 **or** $9\frac{1}{4}$ **or** $9\frac{3}{4}$ **or** 97)

d) The decimal number .... lies between 2.8 and 2.9. (2.87 **or** 2.78 **or** 2.93 **or** 2.39)

e) The place value of 3 in 54.238 is .... (tens **or** tenths **or** hundredths **or** thousandths)

3 The following table shows the number of pupils who play sport:



Sport	Football	Volleyball	Swimming	Tennis
Number of pupils	30	40	50	25

Represent these data by a bar graph.

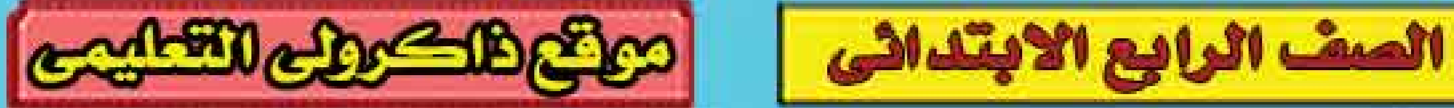
4 The following table shows the number of students taking part in some activities of a primary school from both fourth and fifth grades:

(..... / 6)

Grades \ Activity	Cultural	Art	Sports
Primary 4	15	20	30
Primary 5	25	15	35

Represent these data by double bars.





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Worksheet 16 — Till Lesson (2) - Unit (4)



1 Choose the correct answer:

5

a) The probability that the arrow stands on the shaded part = ... ($\frac{1}{3}$ or $\frac{3}{8}$ or $\frac{1}{4}$ or 3)

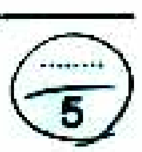
b) The probability of a certain event = ... (0 or 1 or 2 or 3)

c) The probability of an impossible event = ... (0 or 1 or 2 or 3)

d) When you throw a dice once, the probability of getting the number 7 is .... (0 or 1 or $\frac{1}{2}$ or $\frac{1}{3}$)

e) The probability of getting a head when tossing a coin is .... (0 or $\frac{1}{2}$ or 2 or 3)

2 Complete the following:



a) + × , + × ×, + × × ×, ... (in the same pattern)

b) 4225 ÷ 10 = ...

c) 4.7 + 3.07 = ...

d) 711.62 ≃.................. (to the nearest tenth)

e) 1 ton =.................. kg.

3



A box contains 7 red marbles, 5 green marbles and 3 blue marbles. If one marble is drawn at random from the box, **what is the probability of drawing** .... ?

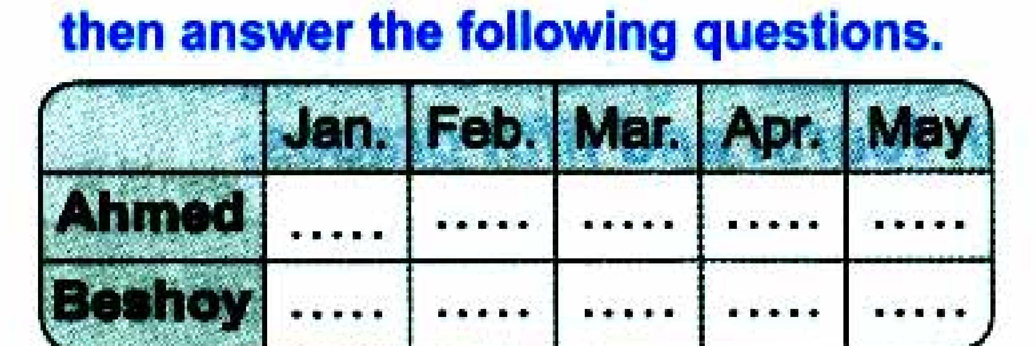
a) a red marble b) a green marble c) a non-blue marble

4



The opposite diagram shows the donations of Ahmed and Beshoy in the first five months of 2008 for the Children Cancer Hospital.

Record the data in the following table, then answer the following questions.



	Jan.	Feb.	Mar.	Apr.	May
Ahmed	.....	.....	.....	.....	.....
Beshoy	.....	.....	.....	.....	.....

L.E.
350
300
250
200
150
100
50
Ahmed
Beshoy
Months
January
February
March
April
May

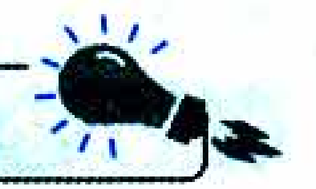
a) What is the month in which the donations of both Ahmed and Beshoy are equal?

b) What is the difference between the greatest donation and the smallest donation given by each of them?




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Unit 4 Test (1)



1 Choose the correct answer from those between brackets:

1) The probability of the appearance of an odd number when tossing a die once = ...

($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{1}{2}$)

2) The probability of the certain event = ... (0 or 1 or $\frac{1}{2}$ or $\frac{1}{3}$)

3) The probability of getting a head when tossing a coin once = ... (0 or $\frac{1}{2}$ or 1 or 2)

4) The probability of getting a prime number when tossing a die once = ...

($\frac{1}{6}$ or $\frac{2}{3}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

5) The probability of the sure event ...... the probability of the impossible event (> or = or <)

6) A teacher chose a pupil from a class of 35 pupils, what is the probability that the chosen pupil is a girl if the number of boys is 20 boys.

The probability = ... ($\frac{1}{35}$ or $\frac{4}{7}$ or $\frac{3}{7}$ or $\frac{2}{7}$)

2 Complete each of the following:

7) The probability of getting a tail when tossing a regular coin once = ...

8) Data are collected by using .... and ....

9) When you throw a dice once, the probability of getting number 3 is ....

10) From a box that contains 6 red balls, the probability of choosing a yellow ball is ....

11) From a bag that contains 10 coloured cards, 7 are blue and the rest are black, the probability of getting a blue ball by drawing it randomly is ....

3 Find the result:

12) A box contains 4 blue balls, 2 red balls and 3 green balls, all are equal in size, if a ball is drawn blindly. Then find:

a) The probability of drawing a blue ball.

a) The probability of drawing a non-red ball.

....

....

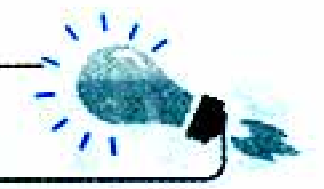
13) A glass jar contains 7 red, 4 green and 6 yellow marbles. If a single marble is chosen at random. What is the probability of choosing............?

a) A green marble. b) A non-yellow marble.



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Unit 4 Test (2)



1 Choose the correct answer from those between brackets:

1) The probability of getting a head as throwing a metallic coin is ....
(1 or $\frac{1}{2}$ or zero or $\frac{2}{3}$)

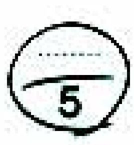
2) .... is from the methods collecting data. (Symmetry or Congruence or Observation)

3) The probability that the sun rises from the east is .... (0 or 1 or 2 or $\frac{1}{2}$)

4) The probability of getting a number more than 4 as throwing a die is ....
(0 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{2}{3}$)

5) The probability of getting an even prime number as throwing a fair die once = ...
(0 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$)

2 Complete each of the following:



6) The probability that the sun rises from west = ...

7) The probability that the moon appears at night = ...

8) A box contains 7 red balls, then the probability of getting a red ball when drawing a ball randomly from this box = ...

9) A box contains 4 blue balls, two red balls and 3 green balls, the probability of drawing a blue ball is ....

10) If the probability of the occurrence of an event is $\frac{5}{8}$ then the probability of non-occurrence of this event is ....

3 Find the result:

11) A box contains 8 red balls, five white balls and two yellow balls. What is the probability of drawing a white ball from it?

....

12) If a die is thrown once, what is the probability of:

a) getting a number between 2 and 5 b) getting a number greater than 6.


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1 Choose the correct answer from those between brackets:

1) 7342 ≃ 7300 to the nearest .... (ten *or* hundred *or* thousand *or* ten thousand)

2) One hundred, fifty eight and seven tenth is written in digits as ....

(158.7 *or* 15.87 *or* 1.587 *or* 0.1587)

3) The value of the digit (3) in the number 6.153 is .... (0.3 or 0.03 or 0.003 , 0.0003)

4) The decimal form of the fraction $\frac{572}{100}$ is .... (57.2 *or* 5.72 *or* $57\frac{2}{10}$ *or* $57\frac{2}{100}$)

5) The digit of tenths in the number 23.69 is .... (9 *or* 6 *or* 3 *or* 2)

6) 19.7 .... 1.97 (> *or* < *or* = *or* otherwise)

7) 56.25 .... 56 + 0.5 + 0.02 (> *or* < *or* = *or* otherwise)

8) 568 + 100 ≃ .... (to the nearest unit) (6 *or* 5 *or* 5.7 *or* 5.6)

9) $4\frac{7}{10}$ + 3.07 = ... (7.14 *or* 7.4 *or* 7.77 *or* 7.04)

2 Complete each of the following:

10) 98.73 – 21.8 = ... ≃ .... (to the nearest ten)

11) 24.385 + 15.7 = ... ≃ .... (to the nearest unit)

12) 456 + 1000 = ... ≃ .... (to the nearest unit)

13) The number 721 approximated to the nearest 10 is ....

3 Find the result:

14) Emad has 98.75 pounds and he bought a shirt for 75.5 pounds. How much money was left with him?

15) Arrange the following in ascending order: $6\frac{1}{4}$, 6.63 , $6\frac{1}{2}$, 6.11

The order is: .... , ... , ... and ....


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1 Choose the correct answer from those between brackets:

1) 386 hundredths = ... (3.86 or 0.386 or 38.6 or 386)

2) $96\frac{58}{1000}$ = ... (6.958 or 96.58 or 96.058 or 96.5)

3) 0.8 .... 0.625 (> or < or = or otherwise)

4) 76 hundredths .... 76 ÷ 100 (> or < or = or otherwise)

5) 25 + 16.48 = ... (65.48 or 30.13 or 41.48 or 40.8)

6) 3.2 .... 3.20 (> or < or = or otherwise)

7) 7.9 + 3.2 .... 11.7 – 1.3 (> or < or = or otherwise)

8) 3650 ÷ 1000 .... 675 ÷ 100 (> or < or = or otherwise)

9) 1 – 0.2 = ... (1.2 or 0.08 or 0.008 or 0.8)

2 Complete each of the following:

10) 901.567 ≃ .... (to the nearest tenth)

11) 4325 ÷ 1000 = ... ≃ .... (to the nearest unit)

12) 40.89 – 22 = ...

13) $204\frac{5}{8}$ ≃ .... (to the nearest unit)

3 Find the result:

14) Omar bought oranges for L.E. 9.25 and fish for L.E. 83.5. How much money did he pay to the nearest L.E.?

15) Arrange the following numbers ascendingly:

5.8 , 5.08 , 58 , 8.5 and 85

The order is: .... , ... , ... and ....

Rania SaYed

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Exam 3

1 Choose the correct answer from those between brackets:

1) 73641 ≃ .... (to the nearest 100) (73601 or 73000 or 73640 or 73600)

2) 7.3 + 8 = ... 8.3 + 7 (> or < or = or otherwise)

3) 11.25 + 10.5 ≃ .... (to the nearest unit) (21.25 or 22 or 15 or 21.40)

4) 251056 ≃ 251100 to the nearest .... (1000 or 100 or 10 or $\frac{1}{10}$)

5) 494 ÷ 100 = ... (5.95 or 4.94 or 49.4 or 0.494)

6) 5.7 + 1.44 .... 5.7 – 3.4 (> or < or = or otherwise)

7) 153.67 ≃ .... to the nearest $\frac{1}{10}$ (153 or 153.6 or 153.7 or 158.8)

8) 75.571 ≃ 75.57 to the nearest .... (tenth or hundredth or thousandth or ten)

9) 5.3 .... 0.3 + 0.2 (> or < or = or otherwise)

2 Complete each of the following:

10) 32 – 11.5 = ...

11) 6489 ≃ .... (to the nearest thousand)

12) 24.5 = 245 ÷ .... 13) 8.5 + 1.96 = ...

3 Find the result:

14) **Arrange the following numbers ascendingly:** 0.45 , 5.4 , 4.5 , 0.54

The order is: .... , ... , ... and ....

15) Mazen has 35 pounds. He bought a ball for 9.75 pounds and a book for 5.25 pounds. **Find what remained with Mazen.**

....

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Part (3): Final Revision

- Summary of the important rules
- Pre-exam Final Revision



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Summary of the important rules

Unit 1

1) To reduce or simplify a fraction to its simplest form, we divide its numerator and denominator by their greatest common factor as: $\frac{12}{18} = \frac{12 \div 6}{18 \div 6} = \frac{2}{3}$

2) Any mixed number can be written as an improper fraction and vice versa as: $2\frac{1}{2} = \frac{5}{2}$

3) Any proper fraction is smaller than 1 as: $\frac{3}{4} < 1$

4) Any improper fraction is greater than 1 as: $\frac{5}{2} > 1$

5) Any improper fraction is greater than any proper fraction $\frac{8}{3} > \frac{7}{8}$

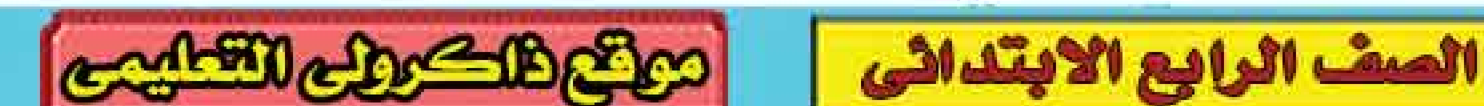
6) For any two fractions $\frac{a}{b}$ and $\frac{c}{d}$:

- If a x d = b x c then:
  $\frac{a}{b} = \frac{c}{d}$ as: $\frac{2}{5} = \frac{4}{10}$ because 2 x 10 = 4 x 5
- If a x d > b x c then:
  $\frac{a}{b} > \frac{c}{d}$ as: $\frac{2}{3} > \frac{3}{5}$ because 2 x 5 > 3 x 3
- If a x d < b x c then:
  $\frac{a}{b} < \frac{c}{d}$ as: $\frac{2}{5} < \frac{3}{4}$ because 2 x 4 < 3 x 5

7) To add or subtract any fraction, we get L.C.M for the denominators as:

$\frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$

8)
- To convert any fraction of denominator 10 to a decimal, we put a decimal point after 1 digit from the right as:
  $\frac{352}{10} = 35.2$ (or) $\frac{7}{10} = 0.7$
- To convert any fraction of denominator 100, we put a decimal point after 2 digits from the right as: $\frac{352}{100} = 3.52$ (or) $\frac{7}{100} = 0.07$
- To convert any fraction of denominator 1000, we put a decimal point after 3 digits from the right as: $\frac{352}{1000} = 0.352$ (or) $\frac{2357}{1000} = 2.357$, ...



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9) If we put zeros to the right of a decimal, then its value does not change as:

0.25 = 0.250 = 0.2500

10) To compare a set of decimal numbers, then we follow the steps below:

(1) Line up the decimal numbers under each other.

(2) Put zeros in the right of the decimals if needed.

The order is: 5.1 , 1.5 , 0.51 and 0.15 (descendingly)
and 0.15 , 0.51 , 1.5 and 5.1 (ascendingly)

as:
1 . 50
0 . 51
5 . 10
0 . 15

11) To approximate to the nearest ten, we do as follows:

a) If the units digit is < 5
→ then replace it by zero and keep the other digits as they are and remove the decimal part.
→ as: 4792.5 ≃ 4790

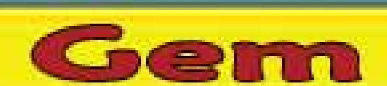
b) If the units digit is 5 or more than 5
→ then replace it by zero, add "1" to the tens digit, keep the other digits as they are and remove the decimal part.
→ (+1) as: 368.9 ≃ 370

12) To approximate to the nearest 100, we do as follows:

a) If the tens digit is < 5
→ then replace all the digits to the right of the hundreds place by zero and keep the other digits as they are.
→ as: 5735.2≃ 5700

b) If the tens digit is 5 or more than 5
→ then replace all the digits to the right of the hundreds place by zero, add one to the hundreds digit and keep the other digits as they are.
→ (+1) as: 7363.5 ≃ 7400.0

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13) To approximate to the nearest 1000, we look at the hundreds digit.

For example: 4369.2 ≃ 4000 (to the nearest 1000)

and 4769.2 ≃ 5000 (to the nearest 1000). (+1)

14) To approximate to the nearest unit, we do as follows:

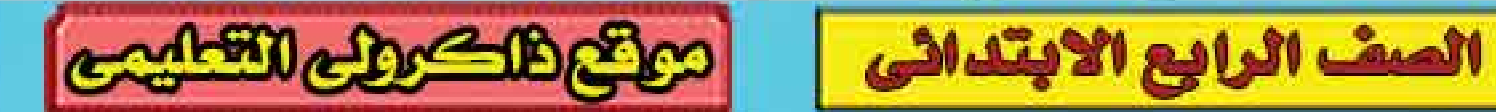
a) If the tenth digit is < 5
→ then cancel the decimal part and keep the other digits as they are.
→ as: 15.32 ≃ 15

b) If the tenth digit is 5 or more than 5
→ then cancel the decimal part, add 1 to the units digit and keep the other digits as they are.
→ as: 357.8 ≃ 358 (+1)

15) To approximate to the nearest tenth, we do as follows:

a) If the hundredths digit is < 5
→ then cancel all the digits to the right of the tenth place and keep the other digits as they are.
→ as: 17.34 ≃ 17.3

b) If the hundredths digit is 5 or more than 5
→ then cancel all the digits to the right of the tenth place, add 1 to the tenth digit and keep the other digits as they are.
→ as: 534.168 ≃ 534.2 (+1)

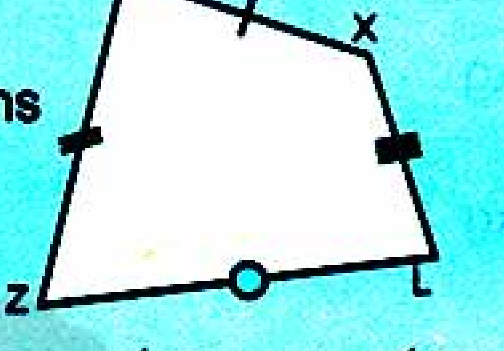



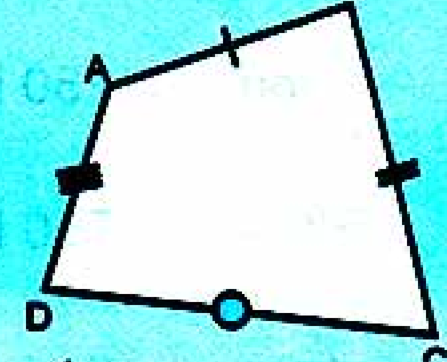
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Unit 2

1) Two polygons are congruent if both of: 1st their corresponding sides are equal in length and 2nd their corresponding angles are equal in measure (the converse is true)

I.e. the polygons:





ABCD and YXZL are congruent if the two conditions are satisfied: (1) AB = XY , BC = YZ , CD = ZL , and AD = XL and

(2) $\angle A \equiv \angle X$, $\angle B \equiv \angle Y$, $\angle C \equiv \angle Z$ and , $\angle D \equiv \angle L$

and the converse is true.

2) Two squares are congruent (it is enough that) if the side length of one of them equals the side length of the other.

3) Two rectangles are congruent (it is enough that) if the two dimensions of one of them equal the two dimensions of the other.

4) Two triangles are congruent (it is enough that) if the two corresponding sides are congruent.

5) The figure has a line of symmetry if it can be folded into two congruent figures that match exactly.

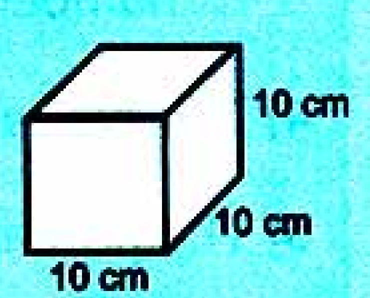
6) The diagonal of the parallelogram divides it into two congruent triangles but it is not a line of symmetry for it.

7) The number of lines of symmetry of:

- Equilateral Δ = 3
- Isosceles Δ = 1
- Scalene Δ = 0
- Parallelogram = 0
- Rhombus = 2
- Rectangle = 2
- Square = 4
- Trapezium = 0
- Isosceles trapezium = 1

Unit 3

1) 1 litre is the capacity of a cube-shaped container of 10 cm side length.



2) 1L = 1000 cm^3 = 1000 ml = 1 dm^3

3) $\frac{1}{2}$ L = 500 cm^3 = 500 mL = $\frac{1}{2}$ dm^3

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4) $\frac{1}{4}$ L = 250 cm^3 = 250 mL = $\frac{1}{4}$ dm^3

5) 1 ton = 1000 kg = 1000000 grams

1 kg = 1000 grams , $\frac{1}{2}$ ton = 500 kg

$\frac{1}{4}$ ton = 250 kg , $\frac{1}{4}$ kg = 250 grams

$\frac{3}{4}$ ton = 750 kg , $\frac{3}{4}$ kg = 750 grams

6) 1 day = 24 hours , 1 hour = 60 minutes

1 minute = 60 seconds , 1 week = 7 days

$\frac{1}{2}$ hour = 30 minutes , $\frac{1}{4}$ hour = 15 minutes

1 hour = 3600 seconds , $\frac{1}{3}$ hour = 20 minutes

Unit 4

1) Data are collected by using methods like:

a) Noticing b) Experimenting c) Practical study

2) Data are represented by using:

a) a bar line graph b) a tree diagram c) a double bar graph

3) Any event may be:

a) Impossible event as: the sun rises from west

b) Sure (or certain) event as: getting a head or a tail when tossing a coin once.

c) The possible event as: getting the number "1" on the upper face when throwing a dice numbered from 1 to 6.

4) The probability expresses the chance of the occurrence of an event.

5) The probability of the impossible event = zero

6) The probability of the sure event = 1



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7) The probability of possible event = $\frac{\text{The number of ways by which event A occurs}}{\text{The total number of all possible outcomes}}$

8) The probability (P) of any event (A) is equal to "0" or equal to "1" or included between "0" and "1"

i.e. $0 \le P(A) \le 1$

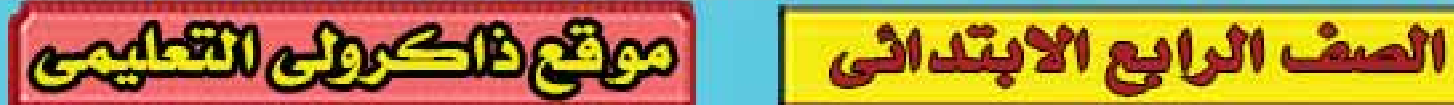
9) If a spinner has six equal sectors numbered by 1, 2, 3, 3, 4 and 4, when the spinner spins then:

- The probability that the spinner lands on 3 = $\frac{2}{6} = \frac{1}{3}$
- The probability that the spinner lands on 4 = $\frac{2}{6} = \frac{1}{3}$
- The probability that the spinner lands on 2 is = $\frac{1}{6}$

RaNia SaYed

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Pre-exam Final Revision

1 Choose the correct answer from those between brackets:

a) 54.238 + 5.8 = ... (54.296 or 59.246 or 60.038)

b) The value of the digit 7 in the number 123.579 = ... (7 or 70 or 0.07 or 700)

c) 256.104 = 256 + 0.1 + ... (0.04 or 0.4 or 0.004)

d) 24.013 − 4.97 = ... (19.043 or 20.043 or 20.016)

e) If the distance between two villages = 4 800 metres, then this distance approximately equals .... (5000 km or 4000 km or 5 km or 4 km)

f) 52789 + 4212 ≃ .... (to the nearest hundred) (5700 or 57000 or 57001)

g) 32145 − 9378 ≃ .... (to the nearest thousand) (23 thousands or 22 thousands or 21 thousands)

h) 775 × 100 ≃ .... (to the nearest hundred) (7750 or 7750 or 77500)

i) 42819 ÷ 1000 ≃ .... (to the nearest one decimal) (42.8 or 42.9 or 43)

j) 4750 millilitres = ... (475 litres or $47\frac{1}{2}$ litres or $4\frac{3}{4}$ litres)

2 Complete each of the following:

a) 2.478 + 9835 ≃ .... (to the nearest 100)

b) 70 000 000 − 134659 ≃ .... (to the nearest 1000)

c) 59.568 + 45.73 ≃ .... (to the nearest whole number)

d) 86.7 − 3.45 ≃ .... (to the nearest one decimal)

e) 4275 ≃ .... (to the nearest thousand)

f) 98.451 ≃ .... (to the nearest one decimal)

g) There are .... line(s) of symmetry in the square.

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h) The diagonal of the rectangle divides it into two .... triangles but it is not a line of ....

i) 100 , 99.4 , 98.8 , ... , ... (in the same pattern)

j) 4 tons = ... kg.

k) Third of the day = ... hours = ... minutes.

l) 4 225 ÷ 10 .... (to the nearest hundred)

---

3 *Put the suitable sign (< , > or =) in ......:*

a) $3\frac{1}{4}$ kg	......	3 250 gm	b) 9 750 kg	......	9 tons
c) 72 hours	......	three days	d) $2\frac{1}{3}$ hours	......	150 minutes
e) 65 x 100	......	6.5 x 1 000	f) 175 ÷ 100	......	175 ÷ 1 000
g) 4.772	......	8 – 3.228	h) 6.18 + 3.82	......	87.56 – 77.5
i) 8 780 kg	......	9 tons	j) $4\frac{1}{2}$ pounds	......	475 piastres
k) 1.75	......	$1\frac{3}{4}$	l) 1.25 litres	......	1500 millilitres
m) 750 gm	......	$\frac{1}{2}$ kg	n) $6\frac{1}{2}$ tons	......	6 500 kg
o) 35 x 10	......	3 x 100	p) 785 ÷ 10	......	8 000 ÷ 100

---

4 *Put (✓) in front of the correct statement and (✗) in front of the incorrect statement (correct the incorrect statement):*

a) 3.2 + 7.18 ≃ 10 to the nearest whole number. ( )

b) 9.256 × 1 000 ≃ 9000 to the nearest thousand. ( )

c) 8.765 + 12.29 ≃ 21.05 to the nearest one decimal. ( )



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d) The line of symmetry of a shape divides it into two congruent parts. ( )

e) The scalene triangle has one line of symmetry. ( )

f) 4.256 + 4.4 = 8.260 ( )

g) 19.07 − 8.007 = 7.003 ( )

h) 4.075 = 4 + 0.7 + 0.005 ( )

i) The value of the digit 2 in the number 54.127 is 0.02 ( )

---

5 a) **Calculate** the value of: (705 894 – 5 894) + 65 × (800 + 200).

b) **1)** **Find** the value of 5 x (35 + 65) – (2 250 ÷ 1 000).

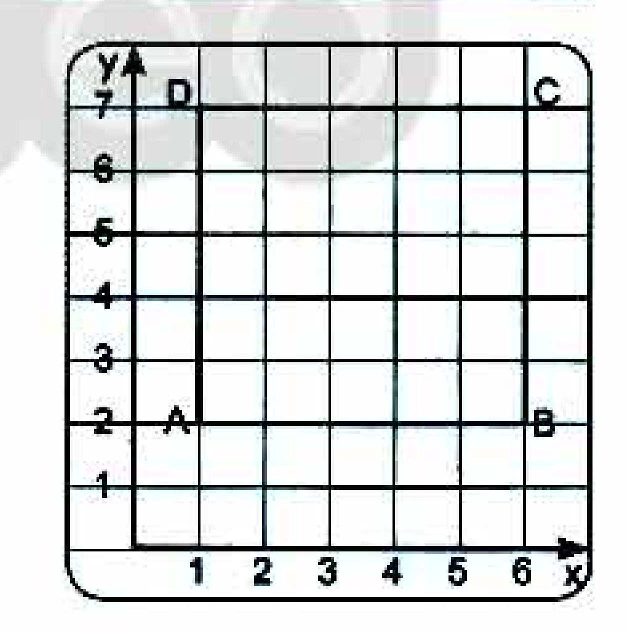
2) What is the number that if we subtract 38 245 from it, the result will be 475 000?

c) **Find** the number which if added to 235 849, the result will be 4 312 765.

d) **Find** the number which if you multiply by 10, subtract15 from the result and divide the remainder by 100, the final result will be 0.25.

---

6 **From the opposite figure, answer the following:**



a) What is the name of the figure ABCD?

b) **Choose:** (1) $\overline{BC}$ .... $\overline{AB}$ (⊥ , //)

(2) $\overline{AB}$, $\overline{BC}$ are two .... straight lines

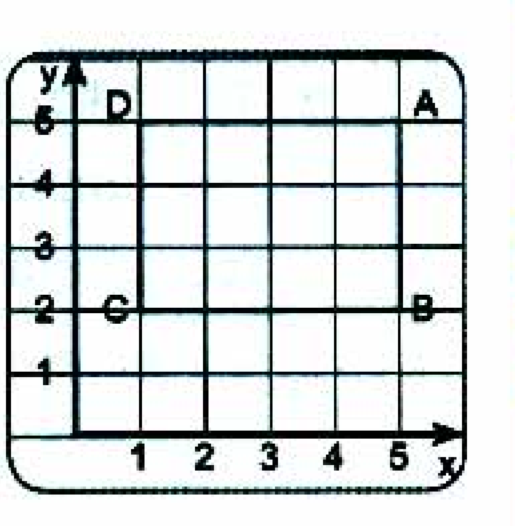
(intersecting , parallel)

c) **Draw** the line of symmetry of the figure ABCD if it exists.

d) **Mention** the two congruent triangles and **shade** them.

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7 **From the opposite figure, answer the following:**



a) What is the name of the figure ABCD?

b) Draw a line to divide it into two congruent parts.

c) How many lines of symmetry are there for the figure ABCD?

d) Calculate the perimeter and the area of the figure ABCD.

---

8 ***From the opposite figure, answer the following:***

a) What is the name of the figure XYZL?

b) How many lines of symmetry are there for the figure XYZL?

c) **Complete:** XY = ... = ... = ... ,

$\overline{XZ}$ .... $\overline{YL}$.

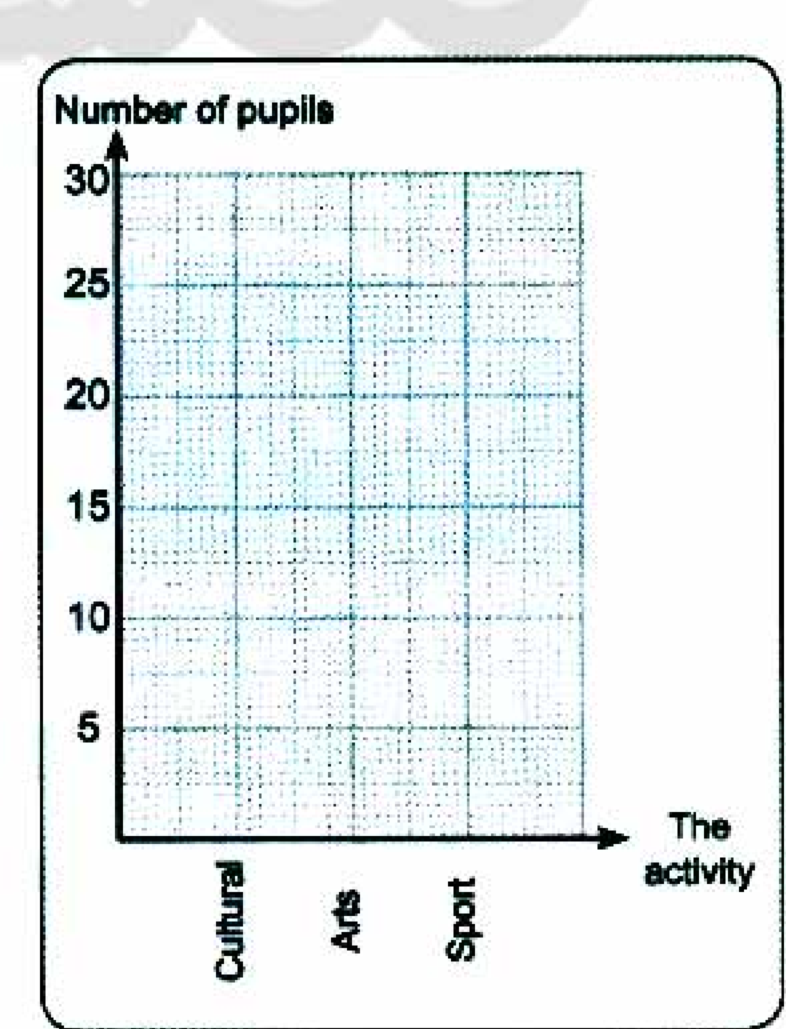
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9 a) A box contains 10 balls , 4 of them are red and the remainder are white. If a ball is drawn randomly, **what is the probability that the drawn ball is white?**

b) The following table shows the number of the pupils who participated in the school activities of the two grades: 4th and 5th in a primary school.

Represent these data by double bars.

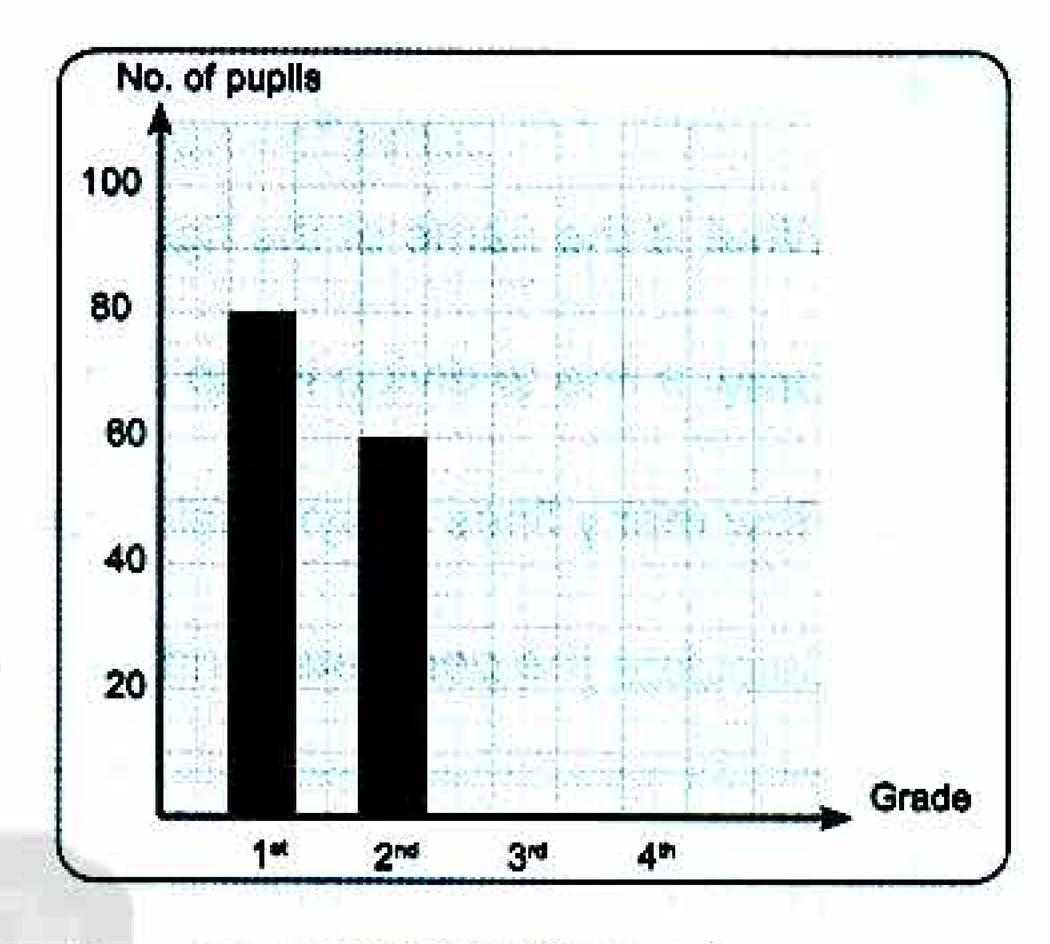
Activities	Cultural	Art	Sports
Number of pupils (4th grade)	10	15	30
Number of pupils (5th grade)	20	25	15



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10 a) The following table represents the number of pupils of the first four grades in a primary school.

Complete the representation of these data by bar lines.



Grades	First	Second	Third	Fourth
Number of pupils	80	60	100	70

b) **What is the probability of the non-occurrence of an event if the probability of its occurrence is 0.3?**

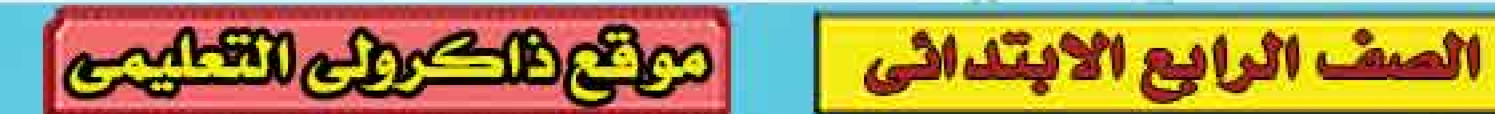
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Model Test for students with special needs

Answer the following questions:

1 Choose the correct answer from those between brackets:

1) $\frac{1}{4} + \frac{3}{4} =$ .... ($\frac{1}{4}$ or $\frac{1}{2}$ or 1)

2) The value of the digit 3 in the number 0.315 = ... (30 or 3 or 0.3)

3) $\frac{2}{3}$ .... $\frac{3}{2}$ (> or < or =)

4) 6475 ≃ .... (to the nearest hundred) (6000 or 5600 or 6500)

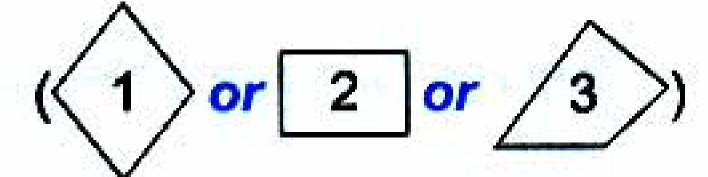
5) 5 tons = ... kg (500 or 5000 or 1000)

6) 354 ÷ 10 = ... (35.4 or 3540 or 3.54)

7) 48 hours = ... day(s) (1 or 2 or 3)

8) The probability of the impossible event = ... (0 or $\frac{1}{2}$ or 1)

9) This figure is congruent to figure no. (..............)



10) 5 litres = ... dm^3 (5 or 5000 or 500)

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2 Complete using the given answers (3 ,10 , 0.03 , $\frac{1}{2}$, 0.3 ,1)

11) 2.3 - 2 = ...

12) $\frac{4}{8} = \frac{......}{2}$

13) 30 , 3 , 0.3, ... (in the same pattern)

14) The number of lines of symmetry of an equilateral triangle = ...

15) The probability of getting a tail when tossing a coin once = ...

3 Join each point from column (A) to what suits in column (B):

A	B
16) $\frac{3}{4}$ hour = ... minutes	• 0.4
17) $\frac{2}{5}$ = ... (in the decimal form)	• 0.3
18) 0.7 + ... = 1	• 45
19) 2.6 ≃ .... (to the nearest unit)	• 4
20) The number of lines of symmetry of a square = ...	• 3

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Examinations from Different Governorates 2019

1 Cairo - Mathematics Supervision for Governmental and Distinguished Language Schools

1 Choose the correct answer:

1) 7651 ≃ .... (approximate to the nearest ten) (7660 or 7600 or 7650 or 7700)

2) 5.2 .... 1.398. (< or = or > or ≤)

3) $\frac{17}{5}$ = ... (in the form of a mixed number). ($2\frac{3}{5}$ or $2\frac{4}{5}$ or $3\frac{1}{5}$ or $3\frac{2}{5}$)

4) The number of axes of symmetry of an isosceles Δ is .... (0 or 1 or 2 or 3)

5) 4 litres = ... dm^3. (4 or 40 or 400 or 4000)

6) 1056 ≃ 1100 (is approximated to the nearest ....) (10 000 or 1000 or 100 or 10)

7) The probability of getting a tail when you flip a coin once is ....

(zero or $\frac{1}{2}$ or 1 or 2)

8) $7\frac{3}{5}$ = ... (in decimal form) (7.6 or 7.3 or 7.5 or 5.7)

2 Complete the following:

9) 4 minutes = ... seconds.

10) .... + 0.6 = 1.

11) The probability of getting an even number when a die is tossed once is ....

12) $5 = \frac{......}{2}$

13) One and thirty five hundredths = ... (in digits)

14) Two triangles are congruent if ....

15) In the opposite figure:

a) What is the name of the opposite figure? ....

b) How many line(s) of symmetry does the opposite figure have? ....

c) Draw a line that divides it into two congruent triangles.





3 Choose the correct answer:

16) The place value of the digit 4 in 11.46 is .... (tens or tenths or hundredths or units)

17) $\frac{3}{6}$ .... $\frac{1}{2}$ (< or = or > or ≤)

18) If Δ ABC ≡ Δ XYZ, then AB = ... (XY or XZ or YZ or BC)

19) The decimal number that lies between 0.35 and 0.4 is .... (0.3 or 0.5 or 0.39 or 0.45)

20) The probability of the certain event is .... (zero or $\frac{1}{2}$ or 1 or 2)

21) 3 tons and a half = ... kg. (3 500 or 3000 or 350 or 3.5)

22) In the rectangle, the diagonal divides it into two .... triangles.
(equilateral or isosceles or congruent or different)

23) The probability of getting the number 5 on the upper face of a die when it is tossed once is .... ($\frac{5}{6}$ or $\frac{1}{6}$ or $\frac{1}{2}$ or 5)

4 Solve the following:

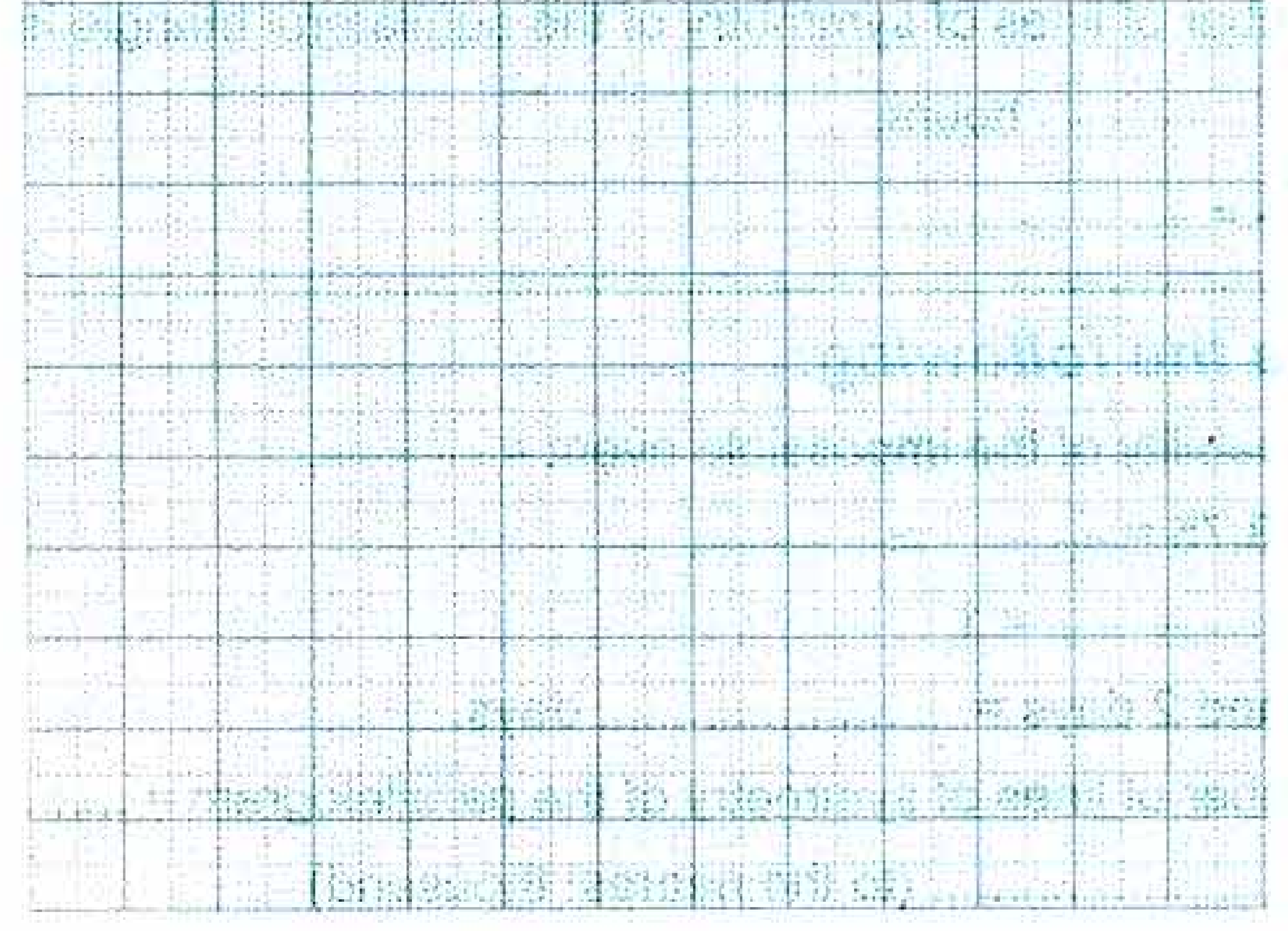
24) 36.48 + 18.37 = ... ≃ .... (to the nearest whole number)

25) $\frac{5}{6} - \frac{1}{3}$ = ... = ... (in the simplest form)

26) The following table shows the number of pupils in the first 3 grades in a primary school:

Grade	First	Second	Third
No. of pupils	60	80	100

Represent these data by a bar line graph:



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2 Cairo - Helwan Educational Zone - El Nahda Official Language School

1 Choose the correct answer:

1) The value of 9 in the number 0.936 is .... (9 or 90 or 0.9 or 0.09)

2) The probability of the certain event is .... (0 or 0.5 or 1 or 2)

3) $1\frac{1}{2}$ = ... ($\frac{1}{2}$ or $\frac{3}{2}$ or $\frac{4}{2}$ or $\frac{5}{3}$)

4) In a rectangle,the diagonal divides it into .... triangles.
(congruent or different or isosceles or equilateral)

5) 0.645 ≃ .... to the nearest unit. (0.6 or 0.65 or 1 or 0)

6) $\frac{8}{13}$ .... $\frac{5}{13}$ (< or = or > or ≃)

7) The square has .... axes of symmetry. (0 or 2 or 3 or 4)

8) The probability of getting an even number when tossing a die once = ...
($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{3}{4}$)

2 Choose the correct answer:

9) 6 tons = ... kg. (60 or 0.006 or 6000 or 6)

10) 2894 ≃ .... to the nearest hundred. (2000 or 2900 or 2800 or 2890)

11) The probability of getting a head when tossing a coin once is ....
(0 or 1 or $\frac{1}{2}$ or $\frac{2}{3}$)

12) $3\frac{7}{100}$ = ... (3.7 or 3.07 or 3.007 or 370)

13) 4896 ÷ 100 = ... (4.896 or 48.96 or 489.6 or 0.4896)

14) The number of lines of symmetry of the equilateral triangle is ....(3 or 2 or 1 or 0)

15) 1 day = ... hours. (24 or 60 or 7 or 100)

16) $\frac{2}{9}$ + $\frac{3}{9}$ = ... (1 or $\frac{5}{9}$ or $\frac{5}{18}$ or $\frac{1}{9}$)

3 Complete the following:

17) The probability of the impossible event = ...

18) 0.648 + 3.75 = ... ≃ .... (to the nearest tenths)

19) 0.6 + ... = 1

20) 1 week and 2 days = ... days.

21) The number of lines of symmetry of the parallelogram = ...

22) 7642 ≃ .... (to the nearest thousand)

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4 **23)** ***Arrange the following numbers in ascending order:***

5.8 , 5.08 , 58 , 8.5 , 8.05

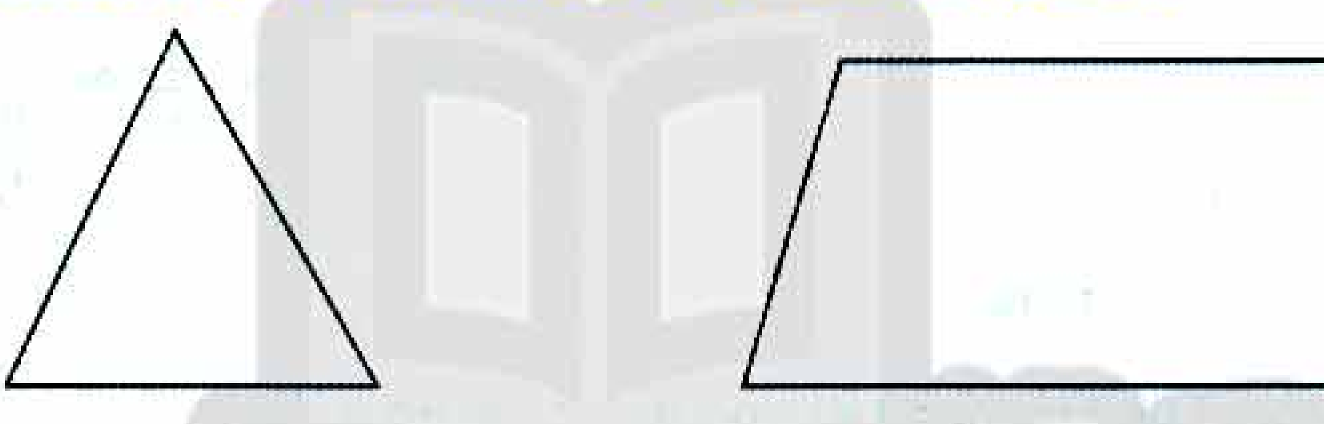
The order is: .... , ... , ... , ... and ....

24) A box contains 5 red balls, 2 yellow balls and 3 green balls. A ball is drawn at random.

Find the probability that the drawn ball is:

a) green ball **b)** red ball

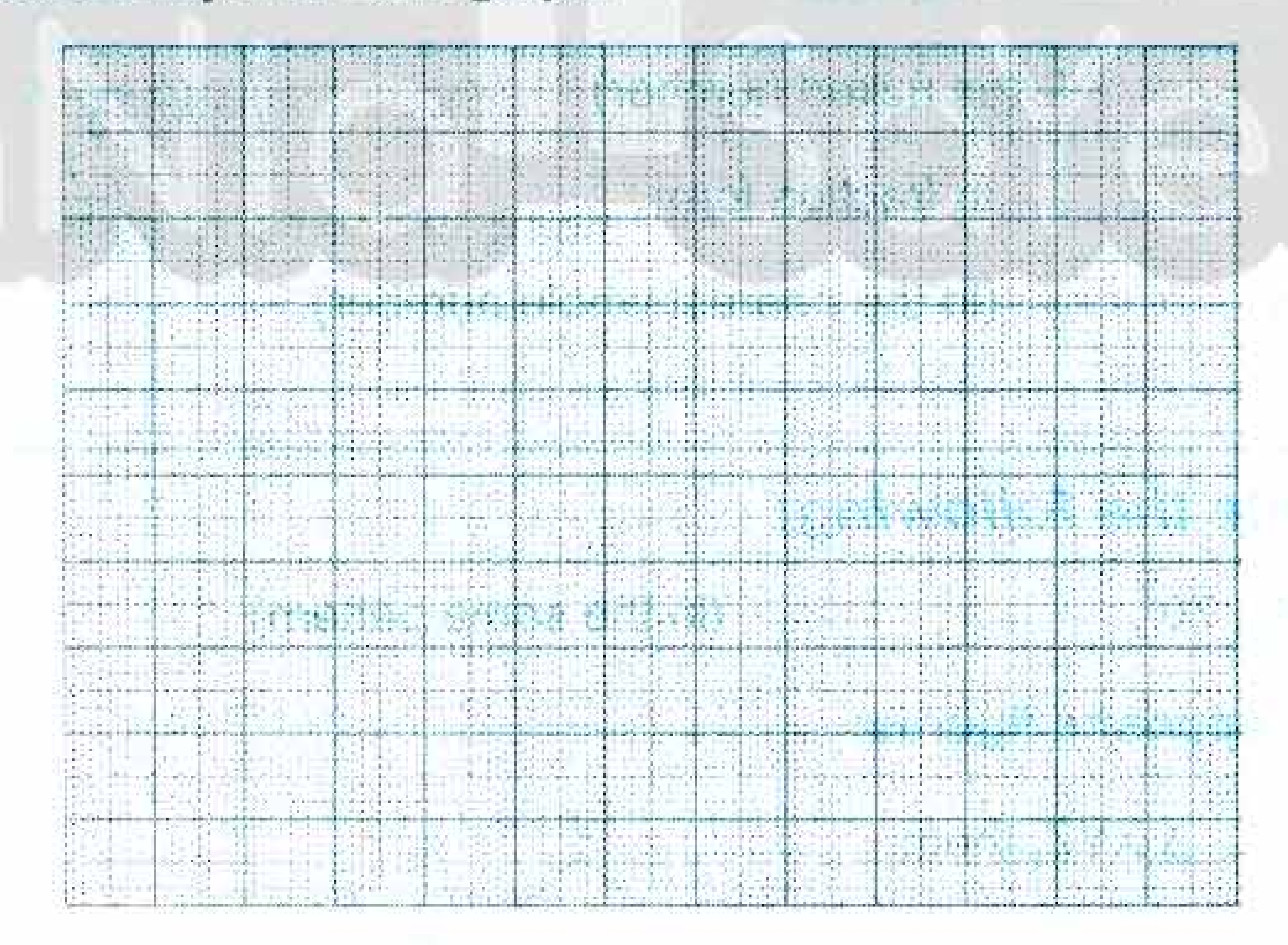
5 **25)** ***Draw the line(s) of symmetry of each figure:***



26) The following table shows the number of students taking part in school activities:

Activity	Social	Cultural	Sports	Art
No. of students	30	20	70	40

Represent these data by a bar line graph:



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3 Cairo - Maadi Educational Directorate - Manarat Official Language School

1 Choose the correct answer:

1) $\frac{2}{5}$ in decimal form is .... (0.2 or 0.4 or 0.5 or 0.6)

2) Add: 5.7 + 0.13 = ... (6.10 or 7.0 or 5.83 or 5.93)

3) Add: $2\frac{1}{2} + 3\frac{1}{3}$ = ... ($5\frac{5}{6}$ or $5\frac{1}{2}$ or $5\frac{1}{3}$ or $5\frac{2}{5}$)

4) Put the suitable sign: $\frac{3}{11}$ .... $\frac{1}{5}$ (> or < or = or ≤)

5) The opposite figure shows fraction of value .... ($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{3}{8}$ or $\frac{1}{8}$)

6) 1 day = ... hours. (12 or 24 or 60 or 100)

7) 3000 kg = ... tons. (3 or 30 or 300 or 0.3)

8) The probability of getting number one when rolling a dice = ... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{1}{6}$)

9) Approximating 1247 to the nearest tens ≃ .... (1200 or 1250 or 1240 or 1000)

10) $1 - \frac{1}{4}$ = ... ($\frac{3}{4}$ or $\frac{1}{4}$ or zero or $\frac{1}{2}$)

11) 1 litre = ... millilitre. (1000 or 2000 or 3000 or 100)

12) $\frac{5}{3}$ = ... $\frac{.....}{.....}$ (as mixed number) ($5\frac{1}{3}$ or $3\frac{1}{5}$ or $1\frac{1}{3}$ or $1\frac{2}{3}$)

13) 0.7 = ... in fraction form. ($\frac{7}{10}$ or $7\frac{1}{10}$ or $\frac{7}{100}$ or $7\frac{1}{100}$)

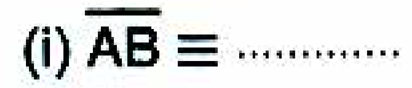
14) 9.17 ≃ .... (to the nearest whole number). (9.2 or 9 or 10 or 9.17)

2 Complete the following:

15) 90 , 80 , 70 , ... , ... (in the same pattern)

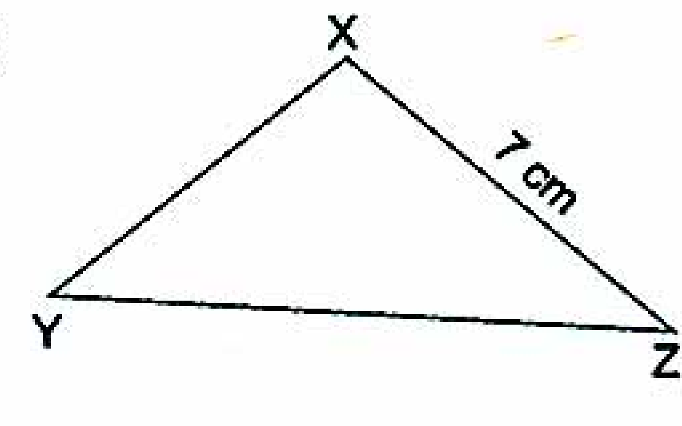
16) In the opposite figures:

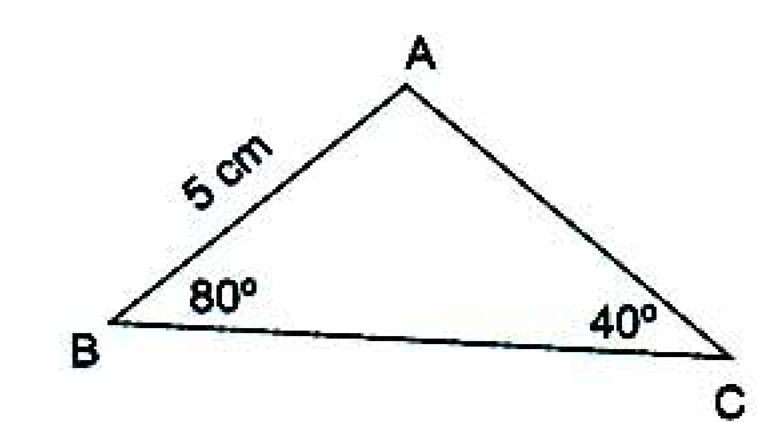
Δ ABC ≡ Δ XYZ, then:


(i) $\overline{AB}$ ≡ ....

(ii) AC = ... cm.

(iii) m (∠ Z) = ...°.





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17) 487 ÷ 10 = ...

18) The value of 3 in the number 76.38 is ....

19) $\frac{7}{20} + \frac{10}{20} =$ ....

3 20) A box contains 3 black balls and 2 white balls.

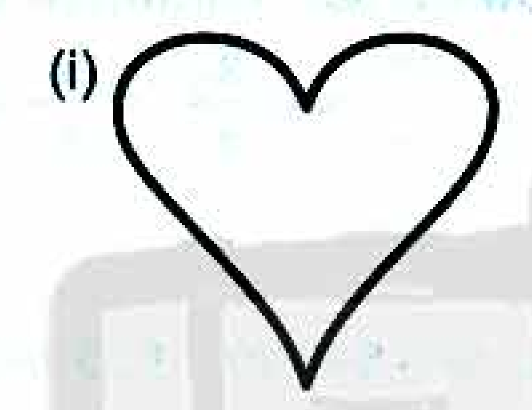
Calculate the probability when drawing at random:

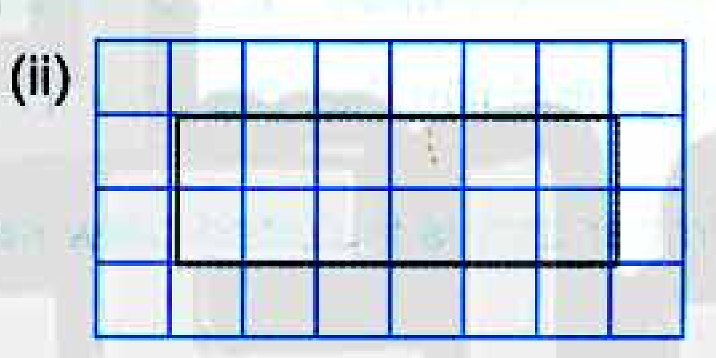
(i) A black ball. P(black) = ...

(ii) A red ball. P(red) = ...

21) **Find the result:** .17.28 × 100 = ...

22) **Draw the line(s) of symmetry of the following:**

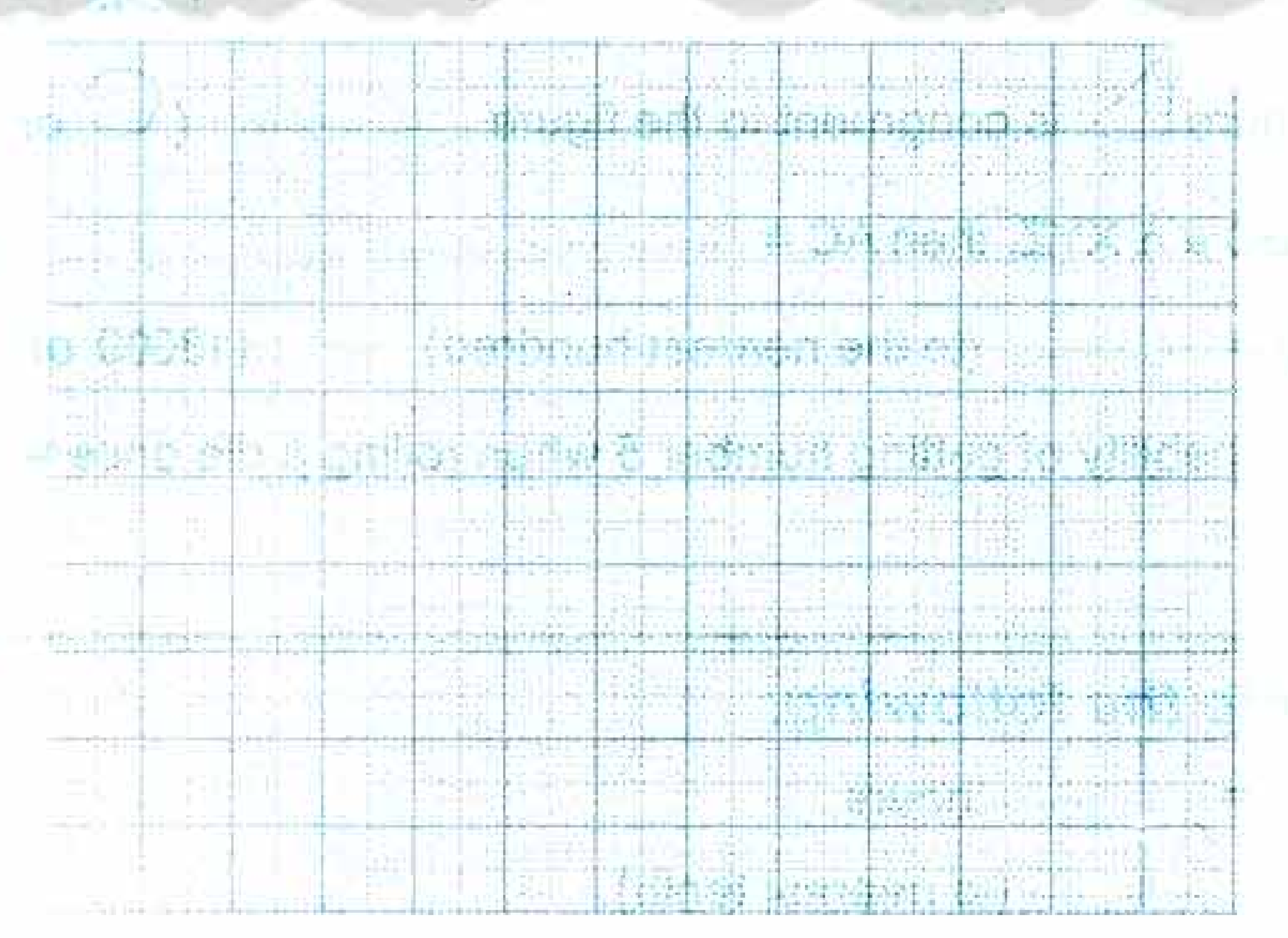
(i) 

(ii) 

23) **The following table shows the number of students participating in the school activities:**

Activity	Football	Math	Art	Science
No. of students	45	30	50	40

Represent these data by a bar line graph:



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4 Cairo - Al Shrouk Directorate - Mathematics Supervision

1 Choose the correct answer:

1) Two and five hundredths = ... (2500 or 2.05 or 22.5 or 25)

2) .... is one of the measurement units of length. (Kilometre or Litre or Hour or Ton)

3) The probability of the certain event = ... (0 or $\frac{1}{4}$ or $\frac{1}{2}$ or 1)

4) The value of digit 3 in the number 0.317 is .... (3 or 0.03 or 0.3 or 30)

5) 0.6 + ... = 1 (4 or 0.4 or 0.5 or 0.8)

6) 3279 ÷ 100 = ... (0.327 or 3.279 or 32.79 or 32 7900)

7) A box contains 8 similar balls, 5 of them are red and 3 are yellow if a ball is drawn randomly, then the probability that the drawn ball is red = ... ($\frac{5}{8}$ or $\frac{3}{8}$ or $\frac{1}{4}$ or $\frac{1}{2}$)

8) The number that is included between 0.64 and 0.65 is .... (0.665 or 0.645 or 0.625 or 0.615)

9) $5\frac{2}{4}$ = ... ($\frac{20}{5}$ or $\frac{25}{5}$ or $\frac{22}{4}$ or $\frac{30}{4}$)

10) The number of lines of symmetry of square = ... (0 or 4 or 6 or 2)

11) 5 litres = ... mL (5000 or 5 or 50 or 500)

12) 7 + 0.4 + 0.03 + 0.009 =................ (7.349 or 7.934 or 7.439 or 74.39)

13) The figure ◺ is congruent to the figure .... (○ or △ or ▭ or ◺)

14) If Δ ABC ≡ Δ XYZ, then AC = ... (XY or YZ or XZ or AB)

15) 12763 = ... (to the nearest hundred) (13000 or 12700 or 12800 or 1200)

16) The probability of getting number 5 when rolling a die once = ... ($\frac{5}{6}$ or $\frac{1}{6}$ or $\frac{1}{2}$ or 0)

2 Complete the following:

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17) 2 days = ... hours.

18) 6.57 ≃ .... (to nearest tenth).



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19) The two triangles are congruent if their corresponding .... are equal in length.

20) 2857 ÷ 1000 = ...

21) The probability of getting a head as throwing a metallic coin once is ....

22) 45.85 + 48.63 = ... ≃ .... (to the nearest unit)

3 Answer the following:

23) **Arrange the following in ascending order:**

6.7 , 6.86 , 6.6 and 6.68

The order is: .... , ... , ... and ....

24) Emad has 98.9 pounds. He bought a shirt for 76.7 pounds.

Calculate the remainder with him.

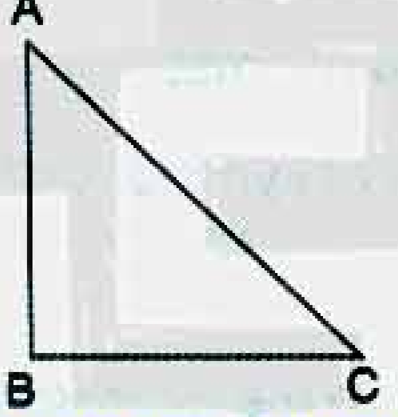
The remainder with him = ... = ...pounds.

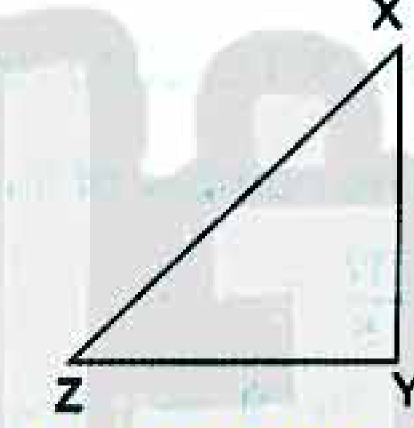
25) **In the opposite figure:**

If Δ ABC ≡ Δ XYZ, then complete:

(a) $\overline{BC}$ ≡ ....

(b) ∠Y ≡ ∠................

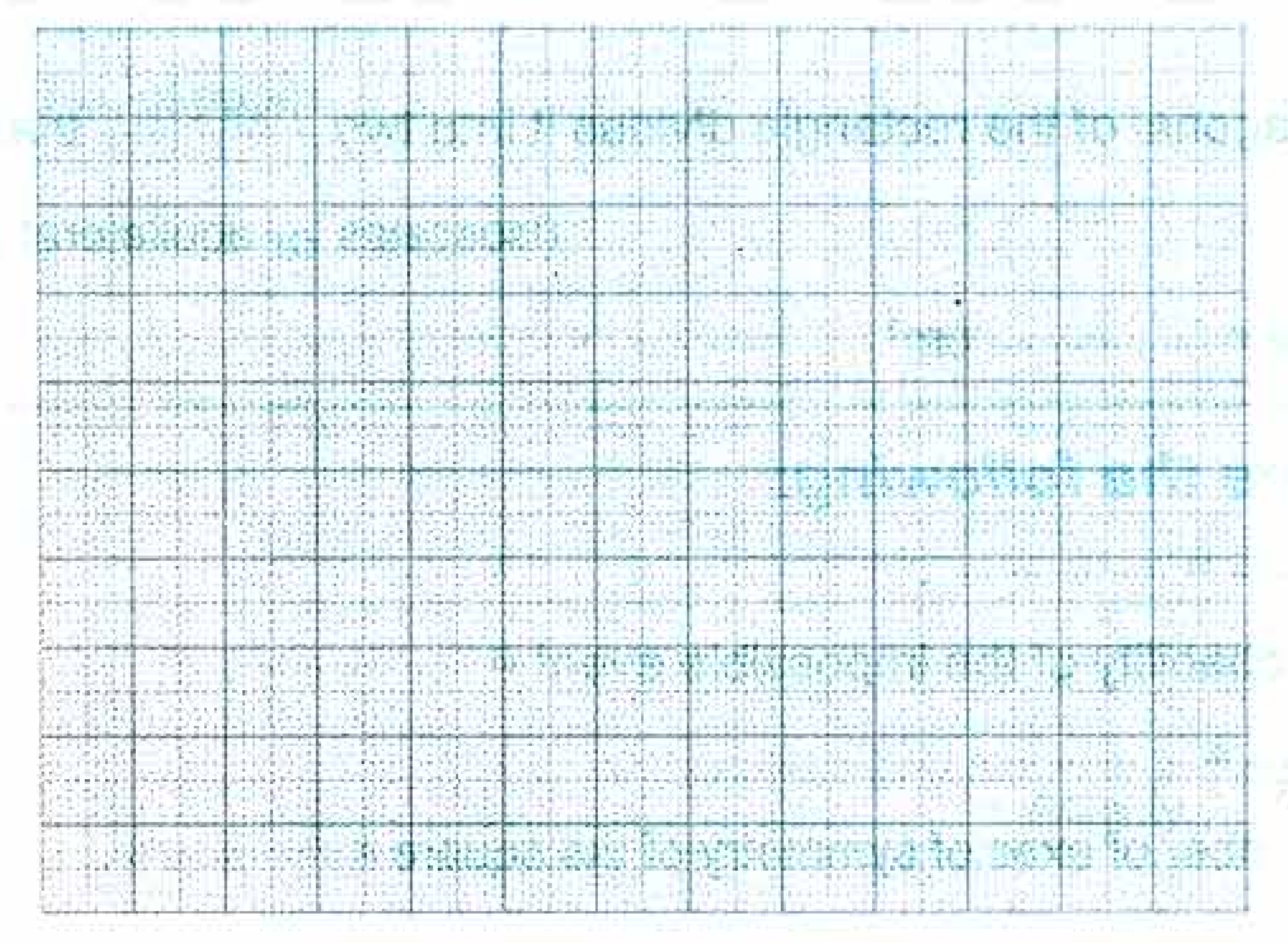




26) **The following table shows the number of travellers in the first four carriages of a train:**

Carriages	First	Second	Third	Fourth
No. of travellers	30	40	60	50

Represent these data by a bar line graph:





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5 Giza- Al Haram Directorate - Fadl Language School

1 Choose the correct answer:

1) 9870 ÷ 100 = ... (98.7 or 9.87 or 0.987 or 987)

2) The probability of the appearance of an odd number when tossing a die once = ...

(0 or 1 or $\frac{1}{2}$ or $\frac{1}{4}$)

3) 3 tons .... 30 kg. (< or > or = or otherwise)

4) $7\frac{3}{5}$ =.................. (7.53 or 7.3 or 7.5 or 7.6)

5) 4.7 + 3.07 = ... (7.17 or 7.77 or 8.4 or 8.77)

6) 140.5 ≃ .... (to the nearest unit) (140 or 141.5 or 141 or 150)

7) $\frac{64}{80}$ = ... (0.8 or 0.08 or 0.008 or 80.64)

8) 6273.5 ≃ 6270 (to the nearest ....) (unit or 10 or 100 or 1000)

9) The number of line(s) of symmetry of the rectangle = ... (zero or 1 or 2 or 3)

10) $\frac{17}{5}$ = ... ($2\frac{2}{5}$ or $2\frac{4}{5}$ or $3\frac{1}{5}$ or $3\frac{2}{5}$)

11) 134.29 ≃ .... (to the nearest tenth) (134.3 or 134 or 130 or 100)

12) 1 - 0.6 =.................. (4 or 0.4 or 0.6 or 1.6)

13) 96.43 .... $9\frac{643}{1000}$ (< or > or = or otherwise)

14) The probability of getting a tail when tossing a coin once = ...

(0 or 1 or half or third)

15) The diagonal of the rectangle divides it into two .... triangles.

(isosceles or equilateral or congruent or different)

16) $\frac{1}{2}$ litre = ... cm^3 (5 or 50 or 500 or 5000)

2 Complete the following:

17) $\frac{3}{8}+\frac{1}{4}$ = ...

18) The probability of the impossible event = ...

19) $3-1\frac{2}{3}$ = ...

20) The number of axes of symmetry of the square = ...

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21) A box contains 10 similar balls, 3 of them are blue and the others are green, a ball is drawn, then the probability that the drawn ball is green = ……………… .

22) $\frac{3}{4}$ hour = ……………… minutes.

3 Answer the following:

23) **Arrange the following in descending order:**

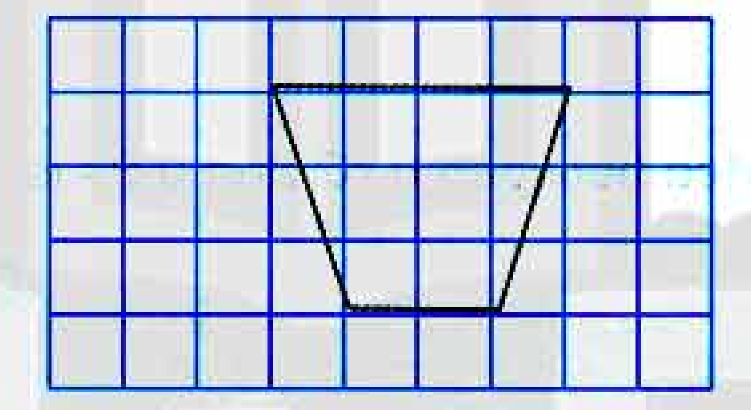
5.8 , 5.08 , 8.5 and 8.05

The order is: ……………… , ……………… , ……………… and ………………

24) 96.8 + 62.31 = ……………… ≃ ……………… (to the nearest 100)

4

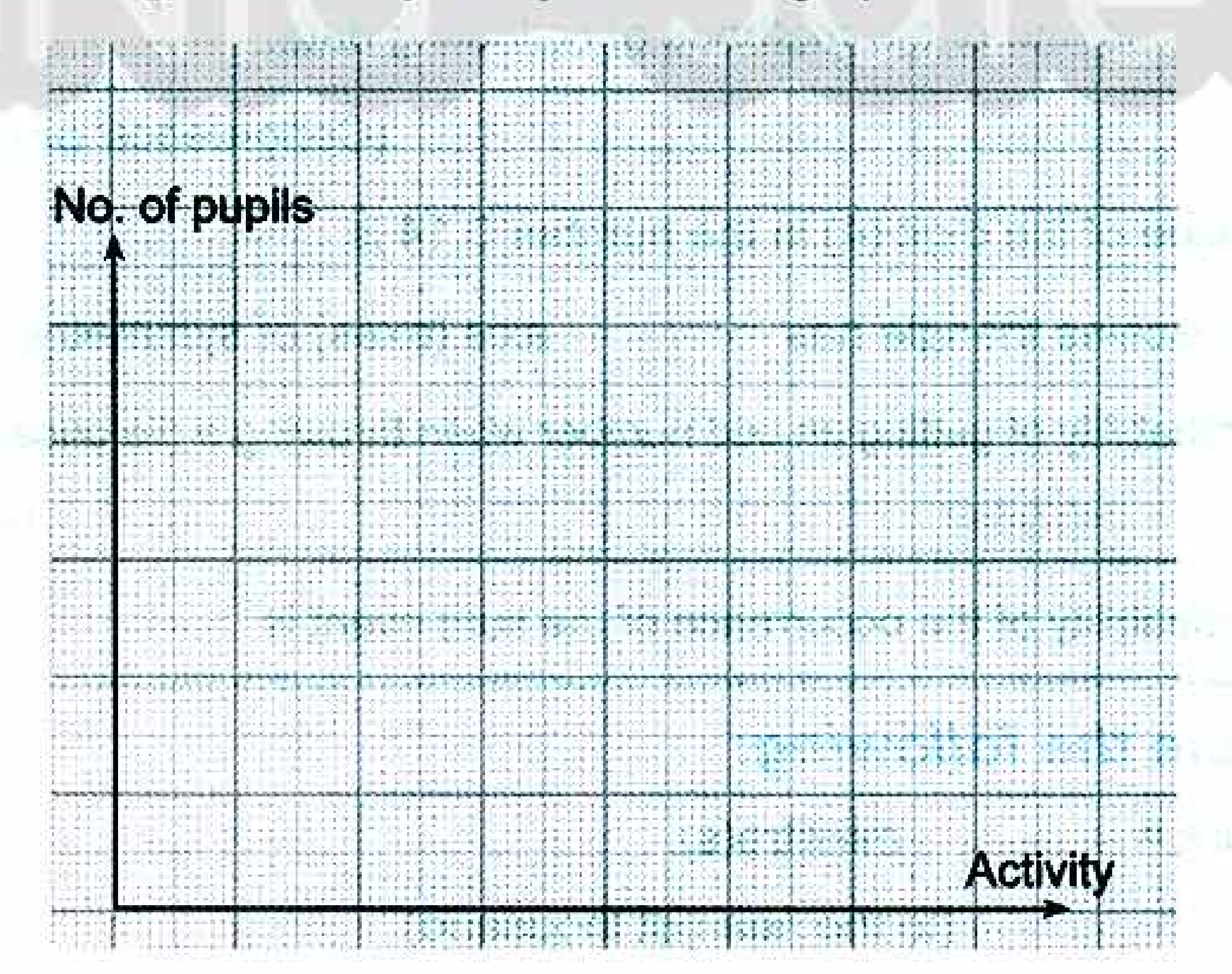
25) **Draw the line of symmetry of the following figure:**



26) **The table below shows the number of pupils in primary 4 participating in some school activities:**

Activities	Sports	Social	Art	Cultural
No. of pupils	45	25	30	15

Complete representing the data by using a bar line graph:



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6 Giza - Al-Agoza Educational Directorate

1 Choose the correct answer:

1) $\frac{317}{100}$ in the decimal form is .... (31.7 or 3.17 or 0.317)

2) $\frac{1}{2}$ litre = ...cm³ (500 or 5000 or 50000)

3) 7342 ≃ 7300 to the nearest .... (ten or hundred or thousand or ten thousand)

4) The rectangle has .... lines of symmetry. (0 or 2 or 3 or 4)

5) 1.08 .... 1.8 (> or < or =)

6) The two squares are not congruent if their sides lengths are ....

(equal or not equal or otherwise)

7) The number that is included between 0.62 and 0.63 is ....

(0.645 or 0.635 or 0.625 or 0.615)

8) $7\frac{3}{5}$ = ... (7.3 or 7.6 or 7.5 or 5.3)

9) One hundred fifty eight and seven tenths is written as ....

(158.7 or 15.87 or 1.587)

10) 4.5 tons = ...kg. (45 or 54 or 4500 or 5400)

11) 45.095 ≃ .... (to the nearest tenth) (45.1 or 46 or 45.11)

12) .... is one of the methods of collecting data.

(Congruence or Equality or Observation)

13) The value of the digit (4) in the number 0.14 is .... (0.04 or 0.4 or 4 or 40)

14) The isosceles triangle has .... axis (axes) of symmetry. (1 or 2 or 3 or 4)

15) The probability of getting an odd number when throwing a die once is ....

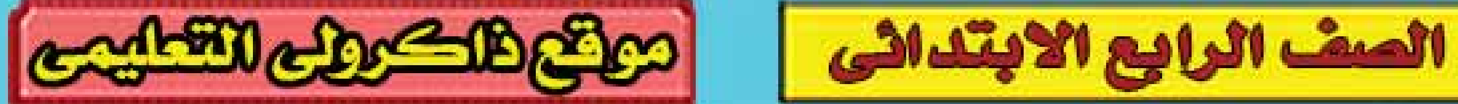
($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

16) The probability of the occurrence of the sure event is .... (zero or 0.5 or 1 or 2)

2 Complete the following:

17) The litre = ... millilitre(s).

18) 4275 ≃ .... (to the nearest thousand)

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19) The equilateral triangle has .... axes of symmetry.

20) $\frac{1}{4} + \frac{3}{4} =$ ....

21) The number 4.7 = 0.7 + ...

22) If you throw a coin once, then the probability of getting a tail = ...

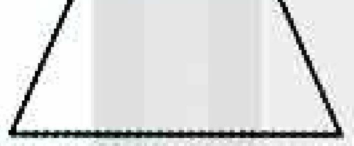
3 *Find the result of:*

23) 45.85 + 48.63 = ... ≃ .... (to the nearest unit)

24) Emad has 98.5 pounds. He bought a shirt for L.E 76.75. **Calculate the rest with him.**

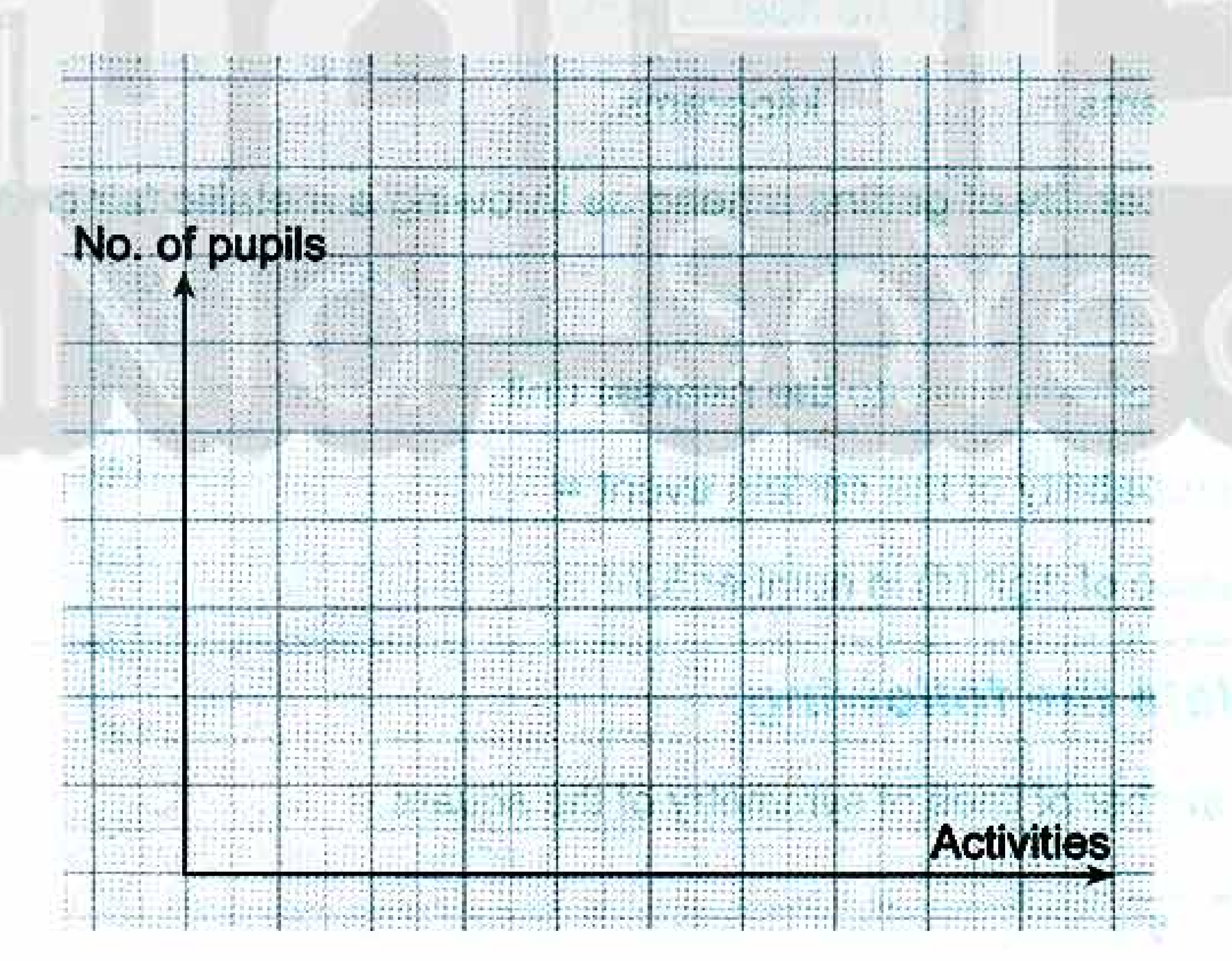
The rest with him = ...

25) **Determine the symmetrical figure, then draw its line of symmetry.**




26) **Represent these data by a bar line graph:**

Activities	Sports	Art	Cultural
No. of pupils	30	50	70






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7 Giza - Al Haram Directorate - Al-Jazeera Language School

1 Choose the correct answer:

1) The isosceles trapezium has .... line(s) of symmetry. (3 or 0 or 1)

2) Six thousandth and four hundredth = ... (0.46 or 0.046 or 0.64)

3) The place value of the digit 6 in the number 7.64 is .... (units or tenths or tens)

4) 42819 ÷ 1000 = ... (0.42819 or 4.2819 or 42.819)

5) The probability of the impossible event = ... (0 or 1 or 0.5)

6) $\frac{7}{20}$ .... $\frac{17}{20}$ (> or < or =)

7) 3.5 tons = ... kilograms. (35000 or 3500 or 350)

8) 96.43 .... $9\frac{648}{1000}$ (> or < or =)

9) $\frac{1}{2}$ litre = ... millilitres (500 or 1250 or 125)

10) 3 days = ...hours. (24 or 72 or 88)

11) 235 ≃ .... (to the nearest ten) (230 or 240 or 200)

12) 3772 grams =................. kilograms. (3.772 or 3772 or 37720)

13) The probability of getting a head as throwing a metallic fair coin once = ...

($\frac{1}{2}$ or $\frac{1}{4}$ or 1)

14) $657\frac{4}{5}$ ≃ .... to the nearest unit. (657 or 658 or 655)

15) The probability of the certain event = ... (0 or 1 or 0.5)

16) The value of digit (4) in number 5.74 is .... (0.4 or 0.04 or 0.004)

2 Complete the following:

17) The number of lines of symmetry of the square = ...

18) $\frac{4}{5} + \frac{1}{5}$ = ...

19) $5\frac{1}{3} = \frac{......}{3}$

20) Two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

21) 568 ÷ 100 = ... ≃ .... (to the nearest unit)

22) $2\frac{3}{10} - 1\frac{2}{10} = $ .... $\frac{......}{......}$.

3 *Find the result of:*

23) **Arrange the following in descending order:**

0.35 , 5.4 , 3.5 and 0.53

The order is: .... , ... , ... and ....

24) A box contains 6 black balls, 2 red balls and 2 green balls. **Find the probability of:**

(a) Drawing a black ball = ... **(b)** Drawing a green ball = ...

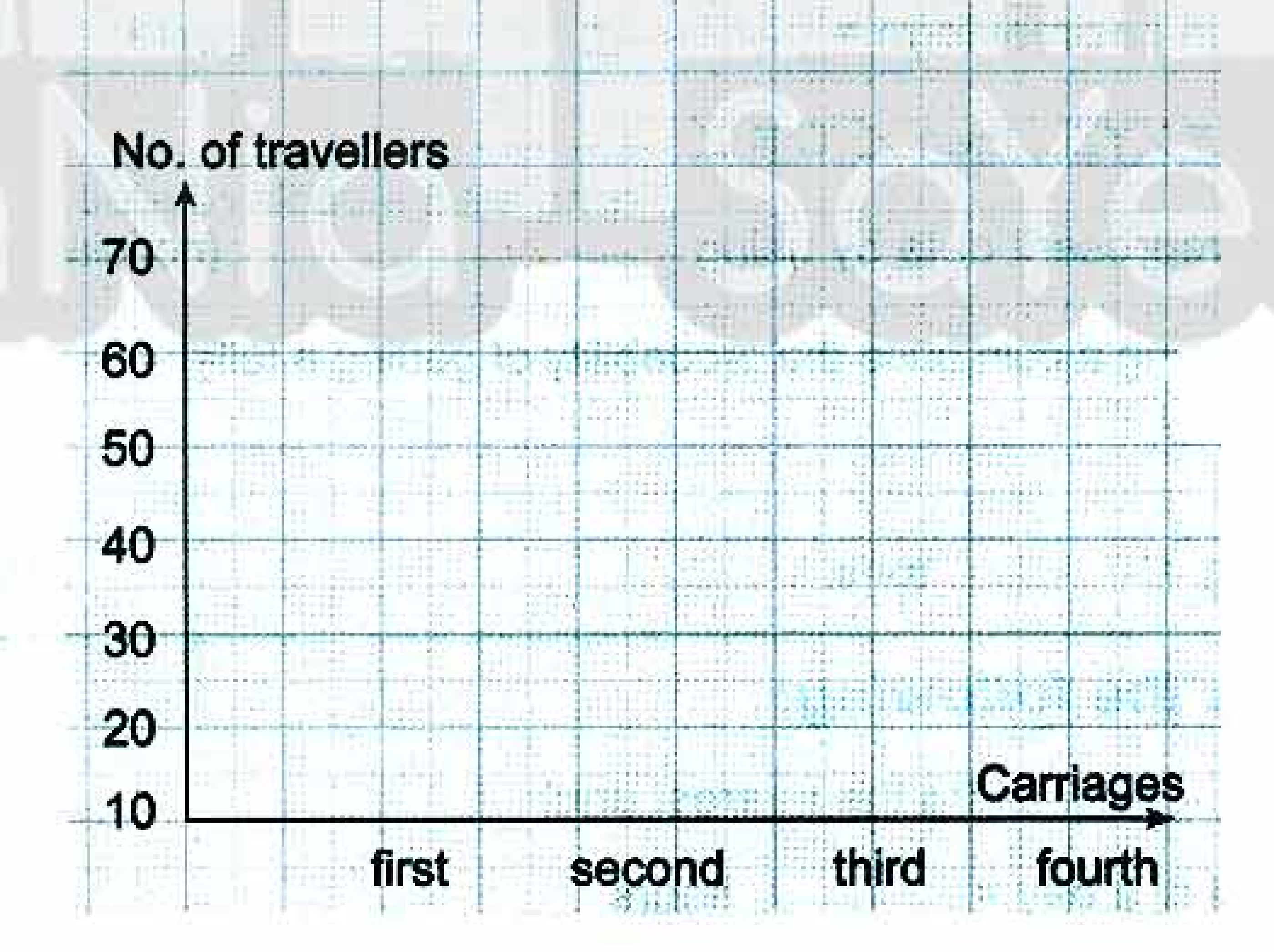
25) If Hossam saved 28.5 pounds and his sister saved 20 pounds. **Find the total of what they saved, then approximate it to the nearest unit.**

The total = ... = ... ≃ ....

26) **The following table shows the number of travellers of first four carriages in a train.**

Carriages	First	Second	Third	Fourth
No. of travellers	60	50	70	40

Represent these data by using a bar line graph:



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

8 Alexandria - Al Montazah Zone - Tibba Language Schools

1 Choose the correct answer:

1) 29.095 ≃ .... (to the nearest tenths) (29.1 or 20.1 or 29.09)

2) $\frac{3}{7} + \frac{2}{3} =$ .... ($\frac{5}{10}$ or $\frac{23}{21}$ or $\frac{5}{21}$)

3) The equilateral triangle has .... line(s) of symmetry. (zero or 3 or 1)

4) This shape ◺ is congruent to .... (◺ or △ or ▱)

5) $\frac{\cdots\cdots}{16} = \frac{3}{4}$ (3 or 9 or 2 or 12)

6) 5.7 + 1.44 .... 5.7 – 3.4 (< or = or >)

7) 25 $\frac{1}{3}$ kg = ... (to the nearest kg) (26 or 20 or 25)

8) The probability of the impossible event = ... (2 or 1 or zero)

9) Sixty five and eight hundredth is written as .... (56.08 or 0.658 or 65.08)

10) The value of the digit (6) in the number 18.36 is .... (6 or 0.06 or 0.6)

11) 3 litres =.................. dm³. (30 or 300 or 3 or 3000)

12) 56 $\frac{7}{1000}$ in decimal form = ... (56.07 or 56.007 or 56.7)

13) If ABCD ≡ XYZL, then ∠ C ≡ ∠ .... (Z or Y or X)

14) We can represent data by using .... (noticing or double bar or adding)

15) When tossing a coin once the probability of getting a tail= ....

(zero or $\frac{1}{2}$ or 1 or 2)

16) 75400 kg =.................. tons. (75.4 or 7540 or 754000)

2 Complete the following:

17) 67.37 ≃ .... (to the nearest unit)

18) The third of a day = ... hours

19) 7 + 0.3 + ... + 0.006 = 7.356

20) The probability of getting an odd number on the upper face when throwing a die once = ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

21) $6\frac{1}{2}$ = ... (an improper fraction)

22) The diagonal of the rectangle divides it into two .... triangles.

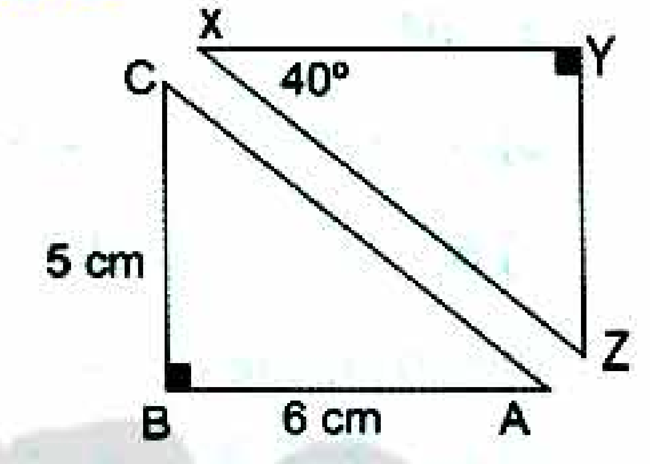
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3 23) ***Find the result of:***

a) 95.7 - 62.31 = ... $\simeq$ .... (to the nearest one decimal place)

b) $\frac{2}{3} - \frac{2}{5}$ = ...

24) **In the opposite figure,if the $\triangle$ ABC≡ $\triangle$ XYZ, then complete:**



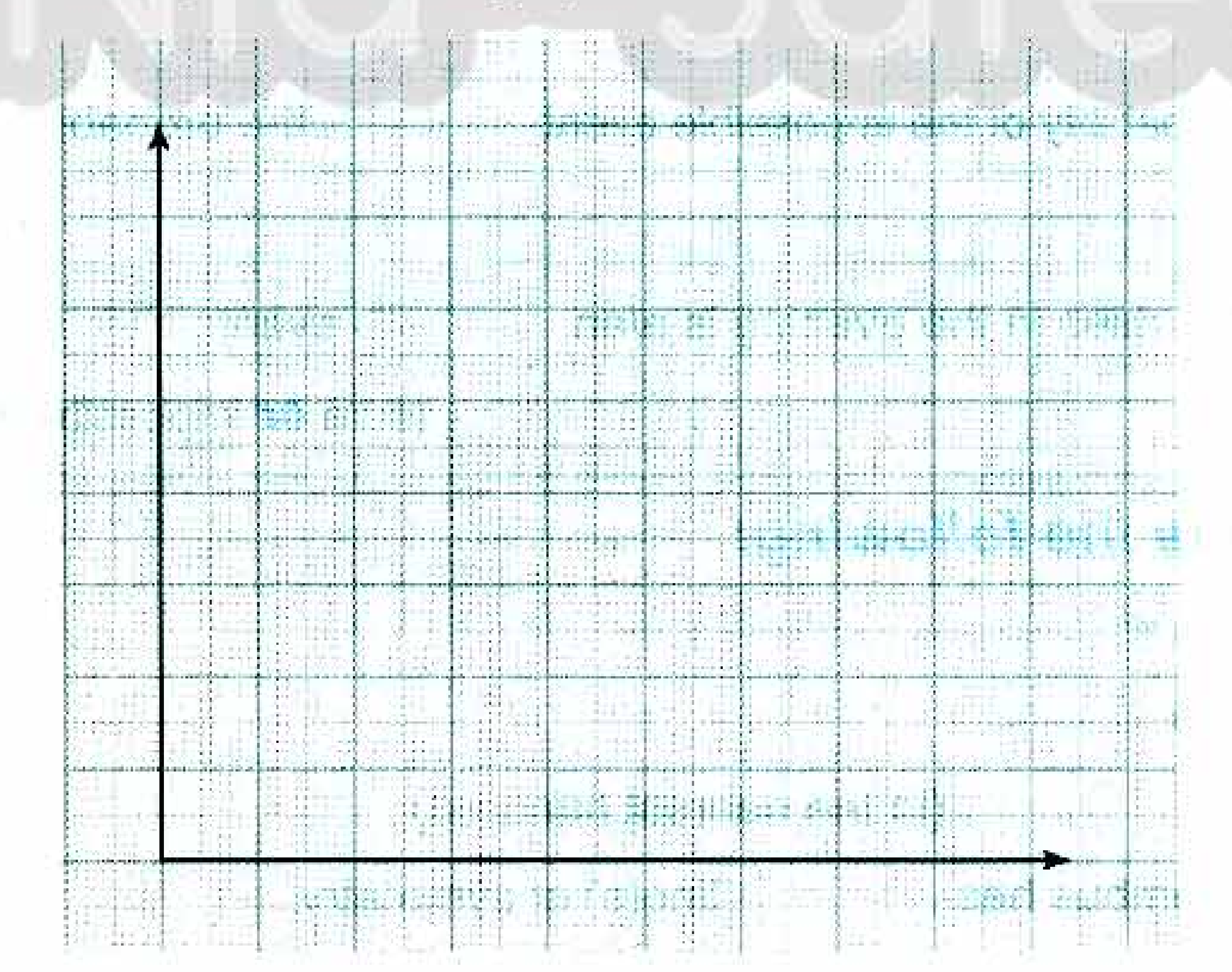

(a) XY = ... = ... cm

(b) m(∠A) = ... = ... °

25) **The following table shows the number of studying hours of a pupil.**

Days	Sunday	Monday	Tuesday
Arabic	5	6	4
Maths	3	3	5

Represent these data by double bars graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

9 Alexandria - Mid Educational Zone - Mathematics Inspection

1 Choose the correct answer:

1) 4.2 .... 4.20 (< or > or =or otherwise)

2) The value of 7 in the decimal fraction 0.375 is .... (0.07 or 7 or 70 or 0.7)

3) $9\frac{7}{10}$ = ... (9.07 or 9.7 or 7.9 or 7.09)

4) 7 + 0.4 + 0.03 + 0.009 = ... (7.439 or 7.934 or 74.39 or 74.93)

5) 354 ÷ 10 = ... (35.4 or 3540 or 3.54 or 354)

6) 0.4 + ... = 1 (0.6 or 0.3 or 0.5 or .6)

7) 5.1 .... 4.3 (< or > or otherwise)

8) 540 piastres = ... pounds (5.4 or 54 or 0.54 or 45)

9) The number of lines of symmetry of the square is .... (0 or 2 or 3 or 4)

10) The number of lines of symmetry of the isosceles triangle is .... (1 or 2 or 3 or 4)

11) The number of lines of symmetry of the rectangle is .... (0 or 1 or 2 or 3)

12) 3000 millilitres = ... litres (3 or 30 or 13 or 33)

13) Two days = ... hours (24 or 48 or 72 or 96)

14) The probability of getting a head when throwing a coin once is ....

($\frac{1}{2}$ or 0 or 1 or 2)

15) The probability of the impossible event .... the probability of a sure event.

(< or > or = or otherwise)

16) The sun rises in the evening is a/an .... event .

(sure or impossible or possible or otherwise)

2 Complete the following:

17) 5.7 – 1.4 = ...

18) 6.8 = 6 + ...

19) 6475 ≃ .... (to the nearest hundred)

20) The rhombus has .... line(s) of symmetry.

لا تنس الاشتراك في قنوات ذاكرولي على تطبيق التليجرام

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



21) 2 litres = ... millilitres

22) The probability of the sure event = ...

3 Answer the following:

23) Write two decimal numbers between 17 and 18.

....

....

24) Put the following in ascending order:

5.8 , 5.08 , 58 , 8.5

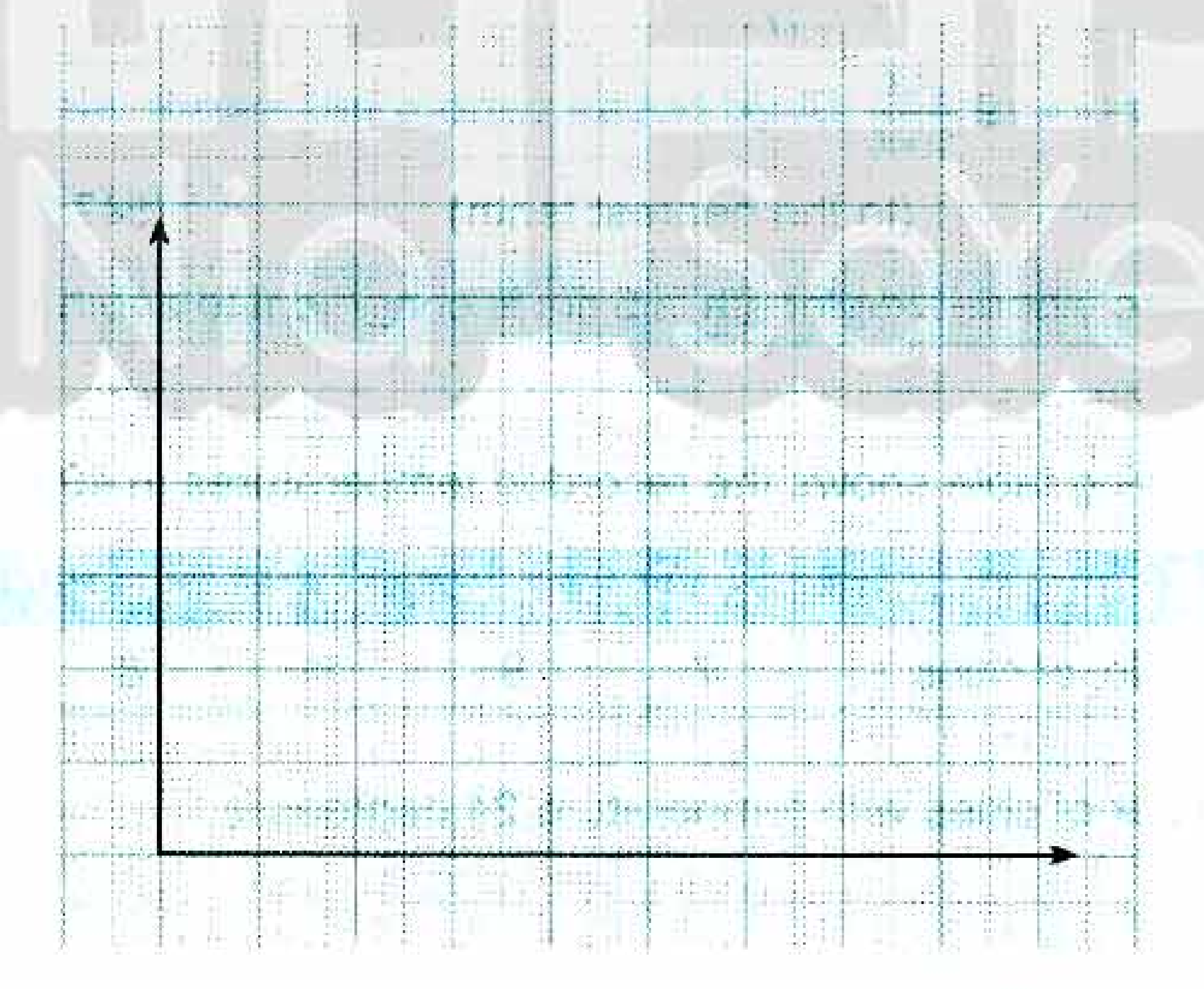
The order is: .... , ... , ... and ....

25) What is the name of the opposite shape?

26) The following table shows the number of pupils in three grades.

Grades	First	Second	Third
Number of pupils	50	30	20

Represent these data by a bar line graph.



تفوقك في أي عمل عليه العلامة دي

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

10 Alex. - El Montazah Educational Zone - Islam Maaly L. Schools

1 Choose the correct answer:

1) 0.4 .... 0.35 (< or = or >)

2) The square has .... line(s) of symmetry. (0 or 1 or 2 or 4)

3) $\frac{1}{2}$ litre = ...cm^3 (5 or 50 or 500 or 5000)

4) The probability of a certain event = ... (zero or 0.5 or 1 or 2)

5) $\frac{1}{4} + 1 + \frac{3}{4}$ = ... (2 or 4 or 1 or $\frac{4}{8}$)

6) The value of the digit 7 in the number 0.375 is .... (70 or 0.7 or 0.07 or 0.007)

7) 4.7 + 3.07 = ... (7.14 or 8.4 or 7.77 or 7.707)

8) 9139 ≃ 9140 (to the nearest ....) (10 or 100 or 1000 or units)

9) The probability of getting a head as throwing a metallic coin once is ....

(1 or 0.5 or zero or $\frac{2}{3}$)

10) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 or 70439 or 7.439 or 7.937)

11) 48 hours .... two days (> or = or < or ≤)

12) 96.43 ....$9\frac{48}{1000}$ (> or = or < or ≥)

13) 457.35 ≃ .... (to the nearest tenth) (547.3 or 457.5 or 457.4 or 460)

14) The square whose side length is 5 cm is congruent to another square whose perimeter is .... cm. (5 or 25 or 20 or 15)

15) The following table shows the recorded temperatures in 40 cities in a day.

Temperature	20°C	22°C	24°C	26°C	28°C	Total
No. of cities	7	9	11	8	5	40

The number of cities with temperature 24 degrees is.................. cities.

(11 or 16 or 27 or 40)

16) If polygon ABCD ≡ polygon XYZL, then m (∠ B) = m (∠..................).

(X or Y or Z or L)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

2 Complete the following:

17) 7 units, 5 thousandths = ... (decimal number)

18) A box contains 4 blue balls, 2 red balls and 3 green balls. The probability of drawing a blue ball is ....

19) 1 – 0.6 = ...

20) 3 tons + 75 kg = ... kg

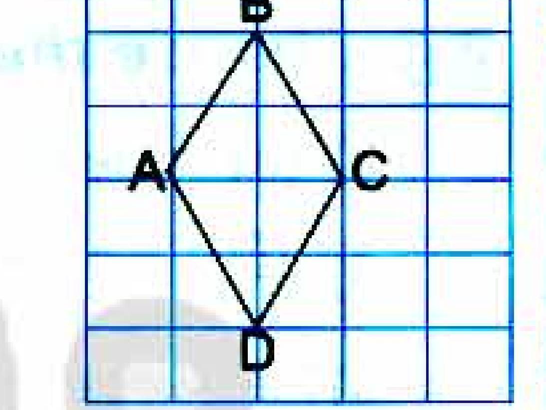
21) $\frac{27}{36} = \frac{.....}{4}$

22) The two polygons are congruent if their corresponding .... are equal in length, and their corresponding ....are equal in measure.

3 Answer the following:

23) 75 – 64.3 = ... ≃ .... (to the nearest unit)

24) In the opposite figure:



(a) What is the name of the figure ABCD? ....



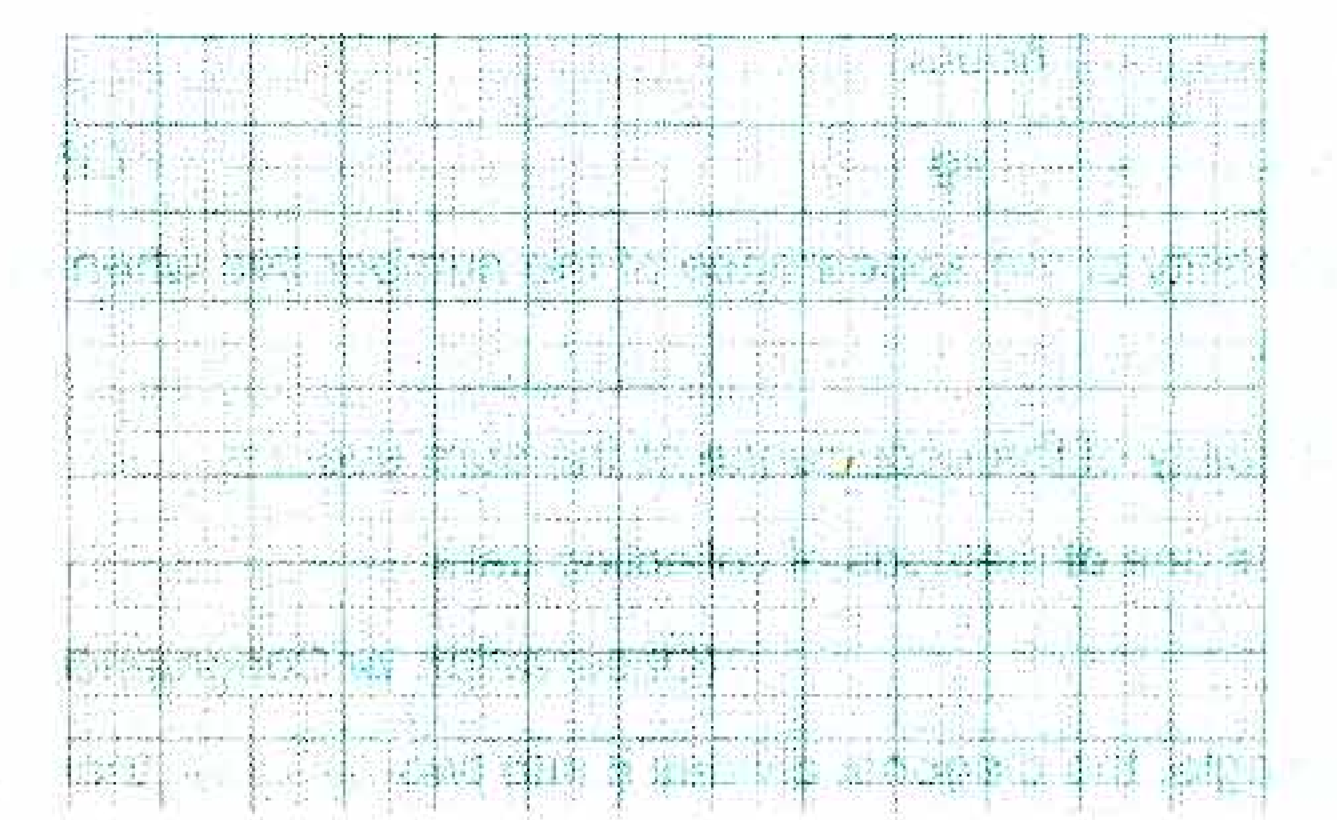
(b) Draw the lines of symmetry of this figure.

25) Seif has 12.89 pounds and his sister has 7.59 pounds. Find the difference between what they have to the nearest pound.

The difference = ... = ... ≃ .... pounds

26) The following table shows the money saved by Ali in four months represent this data by a bar line graph.

Month / Name	Feb.	March	April	May
Ali	70	40	60	20



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هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

11 Dakahlia - Maths Supervision

1 Complete the following:

1) 0.1 + 0.2 + ... = 1

2) The probability of getting a prime number when tossing a die once = ...

3) 5436.5 - 160.9 = ... ≃ .... (to the nearest hundred)

4) 3500 millilitres = ... litres

5) If Δ XYZ ≡ Δ ABC, then XZ = ... , m(∠Y) = ...

6) The ascending order of the numbers: 5.8 , 5.08 , 58 , 8.5
is: .... , ... , ... and ....

2 Choose the correct answer:

7) The value of the digit 7 in the number 0.375 is .... (70 or 7 or 0.7 or 0.07)

8) $\frac{17}{5}$ .... ($2\frac{3}{5}$ or $2\frac{4}{5}$ or $3\frac{2}{5}$ or $3\frac{1}{5}$)

9) The number that is included between 0.64 , 0.65 is .... (0.655 or 0.645 or 0.635 or 0.625)

10) $\frac{1}{5} + \frac{4}{5} =$ .... (1 or $\frac{4}{5}$ or $\frac{5}{4}$ or $\frac{6}{4}$)

11) 251056 ≃ 251100 to the nearest .... (10 000 or 1000 or 100 or 10)

12) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 or 7.934 or 7.439 or 74.39)

13) $7\frac{1}{3} =$ .... ($\frac{3}{22}$ or $\frac{8}{3}$ or $\frac{10}{3}$ or $\frac{22}{3}$)

14) $657\frac{4}{5} =$ .... (to the nearest unit) (657 or 658 or 655 or 659)

15) The number of line(s) of symmetry of the isosceles triangle is .... (1 or 2 or 3 or 4)

16) The number of line(s) of symmetry of the square .... (1 or 2 or 3 or 4)

17) 3 days =................ hours (24 or 48 or 72 or 92)

18) 3.5 tons = ... kg (35 or 350 or 3500 or 35000)

19) The probability of the appearance of the number five when tossing a die once = ... ($\frac{1}{2}$ or 5 or $\frac{5}{6}$ or $\frac{1}{6}$)

20) The probability of the occurrence of the sure event = ... (0 or 0.5 or 1 or 2)

21) .... is one of methods of collecting data.
(Observation or Congruence or Equality or Parallelism)

22) In a rectangle, the diagonal divides it into two................ triangles.
(isosceles or equilateral or congruent or acute)


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem
موقع ذاكرولى التعليمى
الصف الرابع الابتدائى

3 Find the result:

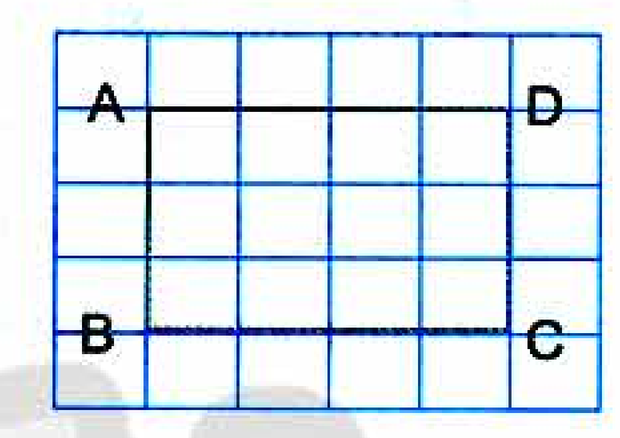
23) Omar wants to buy a pair of shoes for L.E. 56.5 and a shirt for L.E. 34.25. If he has L.E. 100, **Find the remainder to the nearest L.E.**

....

24) If the price of one kg of meat is 100 pounds if a family consumes one and half kg weekly, **find what this family spends in 5 weeks.**

....

25) **In the opposite figure:**



1) The name of the figure ABCD:

is .... (Complete)

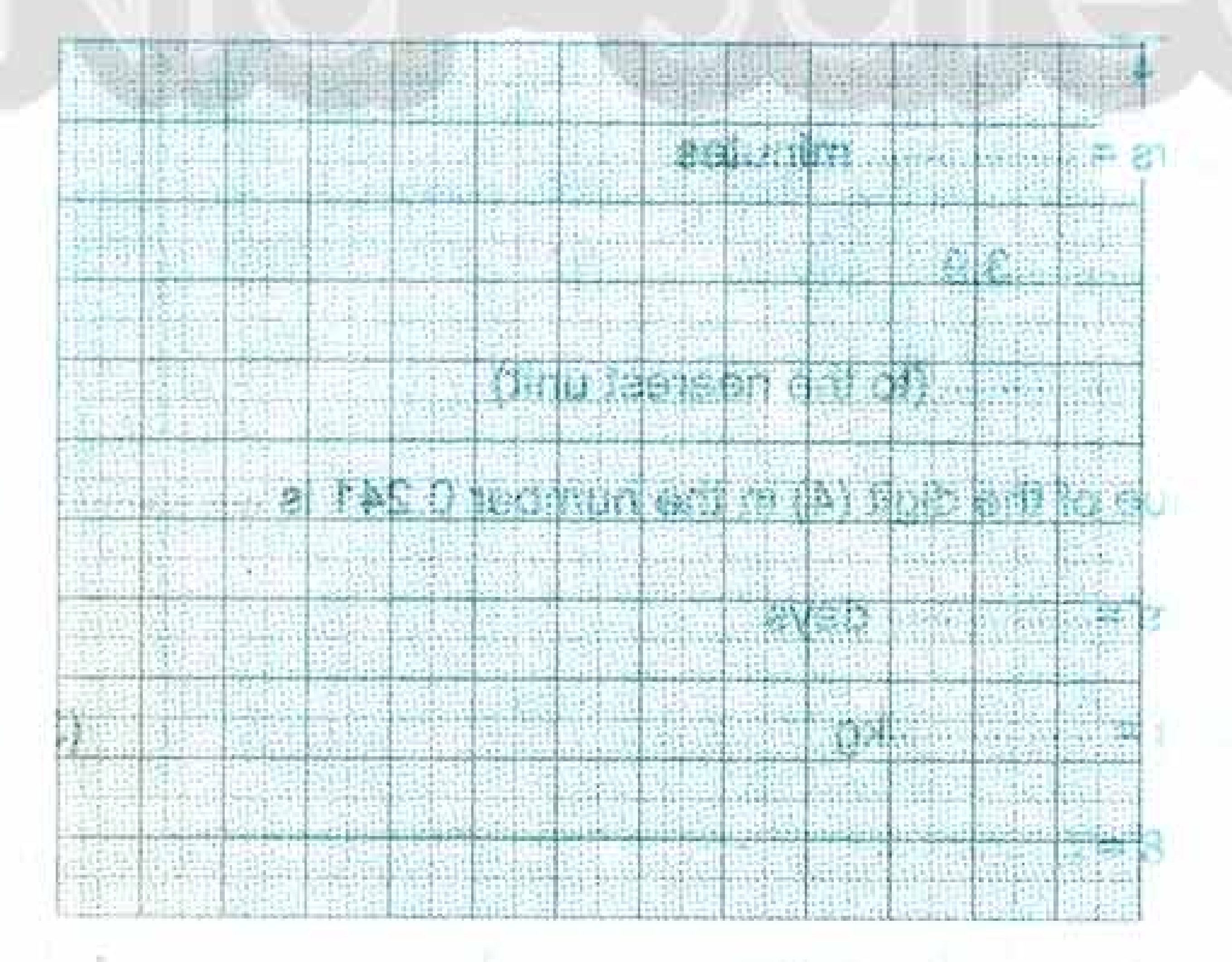
2) The number of lines of symmetry of this figure:

= .... (Complete)

3) Draw a line that divides this figure into two congruent figures.

26) **The following table shows the number of travellers in the first four carriages of a train. Represent these data by a bar line graph.**

Carriages	First	Second	Third	Fourth
No. of travellers	60	55	70	65



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

12 Kafr El Sheikh Educational Directorate - Maths Supervision

1 Complete the following:

1) 98750 ml = ... L

2) $5\frac{1}{3}$ as an improper fraction is ....

3) 5436.51 - 160.9 = ... ≃ .... (to the nearest 100)

4) 0.3 + 0.3 + ... = 1

5) The probability of the impossible event = ...

6) The smallest whole number that if approximated to the nearest 10 we get the result 9420 is ....

2 Choose the correct answer:

7) The number that is included between 0.730 and 0.744 is .... (0.745 or 0.755 or 0.735 or 0.725)

8) The isosceles trapezium has ....line(s) of symmetry. (0 or 1 or 2 or 3)

9) 0.91 .... 1.02 (< or > or = or ≥)

10) When you flip a coin, the probability of getting a tail = ... (0 or 0.1 or 0.2 or 0.5)

11) 7 units, 5 thousandths = ... (5007 or 7.5 or 7.05 or 7.005)

12) $\frac{.....}{20} = \frac{3}{4}$ (5 or 10 or 15 or 20)

13) $\frac{3}{4}$ hours = ... minutes (60 or 45 or 40 or 30)

14) $\frac{37}{10}$ .... 3.9 (> or = or < or ≥)

15) $5\frac{3}{4}$ ≃ .... (to the nearest unit) (6 or 5.75 or 5 or 5.8)

16) The value of the digit (4) in the number 0.241 is .... (0.4 or 0.04 or 0.004 or 4)

17) 72 hours =.................. days (2 or 3 or 4 or 5)

18) 3.5 tons = ...kg (35 or 350 or 3500 or 35000)

19) $\frac{7}{10}$ + 0.8 = ... (0.15 or 0.78 or 0.87 or 1.5)

20) 35.36 ≃ 35.4 (to the nearest ....) (tenth or hundredth or 10 or 100)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

21) $26\frac{1}{25}$ as a decimal number is ………………. (26.25 or 26.004 or 26.4 or 26.04)

22) 4237 ÷ 100 ≃ ……………… (to the nearest $\frac{1}{10}$)

(42.37 or 42.3 or 42.47 or 42.4)

3 Answer the following:

23) Arrange in ascending order: $26\frac{1}{4}$ litres , 9000 mL , 5 L , 6500 mL

The order is: ……………… , ……………… , ……………… and ………………

24) Omnia bought a group of toys for 34.75 pounds and a dress for 26.3 pounds. If she had 100 pounds, find the money left with her after paying.

……………………………………………………………………………………

25) In the opposite figure:

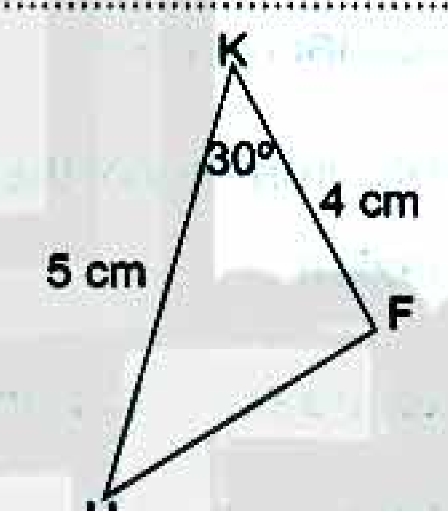
ΔABC ≡ ΔFHK, complete:

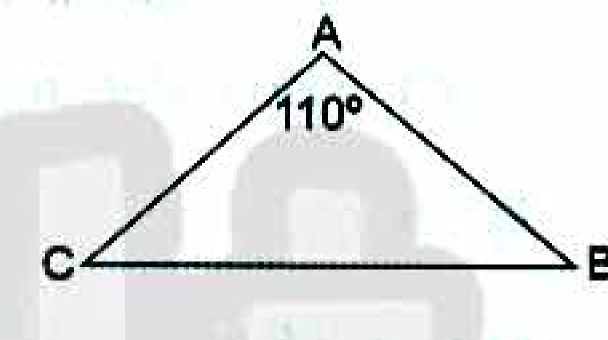
(a) CB = …………… cm

(b) m(∠B) = …………… °

(c) FH = ……………

(d) m(∠C) ≡ ……………

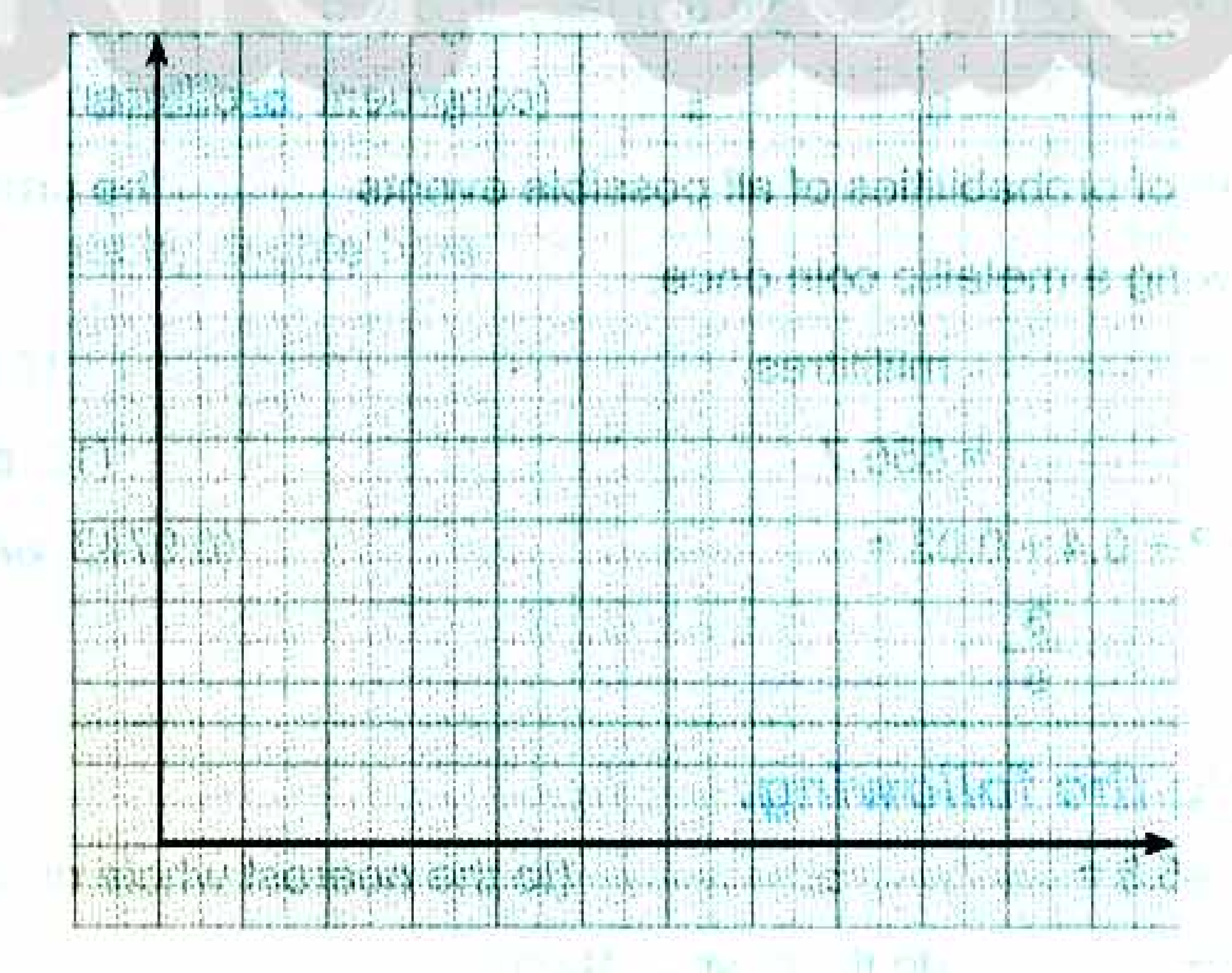




26) The following table shows the number of pupils in four grades.

Grades	First	Second	Third	Fourth
No. of pupils	30	25	20	40

Represent these data using a bar line graph.




هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem  موقع ذاكرولى التعليمى | الصف الرابع الابتدائى

13 Beheira - Rasheed Educational Directorate - Maths Supervision

1 Choose the correct answer:

1) 8 hundredths + 8.8 = ... (88.8 or 888 or 8.88 or 0.888)

2) $\frac{17}{5}$ = ... ($2\frac{3}{5}$ or $2\frac{4}{5}$ or $3\frac{1}{5}$ or $3\frac{2}{5}$)

3) A box contains 10 similar balls, 3 of them are blue, the others are green. If a ball is drawn randomly, then the probability that the drawn ball is green = ... ($\frac{3}{10}$ or $\frac{1}{2}$ or zero or $\frac{7}{10}$)

4) 35.26 = 35.3 (to the nearest ....) (0.1 or 0.01 or 0.001 or 10)

5) $4\frac{7}{50}$ = ...(decimal number) (4.75 or 4.50 or 4.7 or 4.14)

6) The number of lines of symmetry of the square .... the number of lines of symmetry of the isosceles trapezium. (< or = or ≥ or >)

7) 834.2 ≃ .... (to the nearest hundred) (800 or 8000 or 8300 or 900)

8) 6.5 + 2.5 .... 12.8 – 3.8 (< or = or ≥ or >)

9) The probability of getting an even prime number as throwing a fair die once = ... (zero or $\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{1}{3}$)

10) 45000 kg = ... tons. (45 or 450 or 4.5 or 4.2)

11) The diagonal of the rectangle divides it into two .... triangles. (congruent or different or isosceles or equilateral)

12) The sum of probabilities of all possible events .... the probability of getting a head as throwing a metallic coin once. (< or = or ≥ or >)

13) 7 litres = ... millilitres. (7 or 0.007 or 7000 or 700)

14) 8567 ÷ .... = 856.7 (10 or 100 or 1000 or 10 000)

15) 0.009 + 7 + 0.4 + 0.03 = ... (0.9743 or 7.943 or 7.439 or 7.934)

16) $\frac{2}{3}$ .... $\frac{3}{5}$ (< or = or ≥ or >)

2 Complete the following:

17) 29.65 + 45.3 = ... ≃ .... (to the nearest whole number)

18) 29896 ≃ .... (to the nearest 1000)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

19) The probability that the sun rises from the west = ...

20) The two squares are congruent if the side length of ....

21) $\frac{1}{3}$ of a day = ... hours.

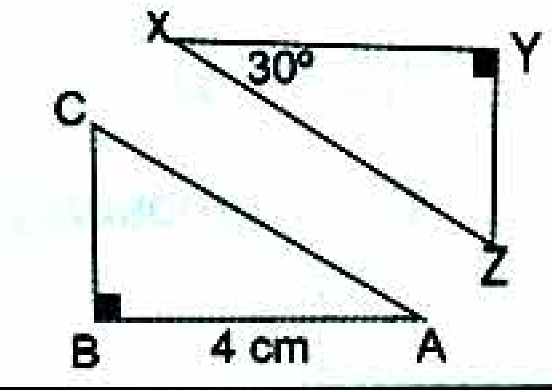
22) $\frac{2}{3} + \frac{1}{6}$ = ...

3 *Find the result:*

23) **Arrange in ascending order:** 5.75 , $5\frac{1}{4}$, 5.005 , $5\frac{1}{2}$

The order is: .... , ... , ... and............

24) **From the opposite figures, if △ ABC ≡ △ XYZ complete:**





(a) XY = ... = ... cm

(b) m(∠A) = m(∠......) = ...°

4 *Answer the following:*

25) Ahmed bought a group of pens for 45.25 pounds and some notebooks for 25.15 pounds, if he has 120 pounds, **find what remained with him after paying.**

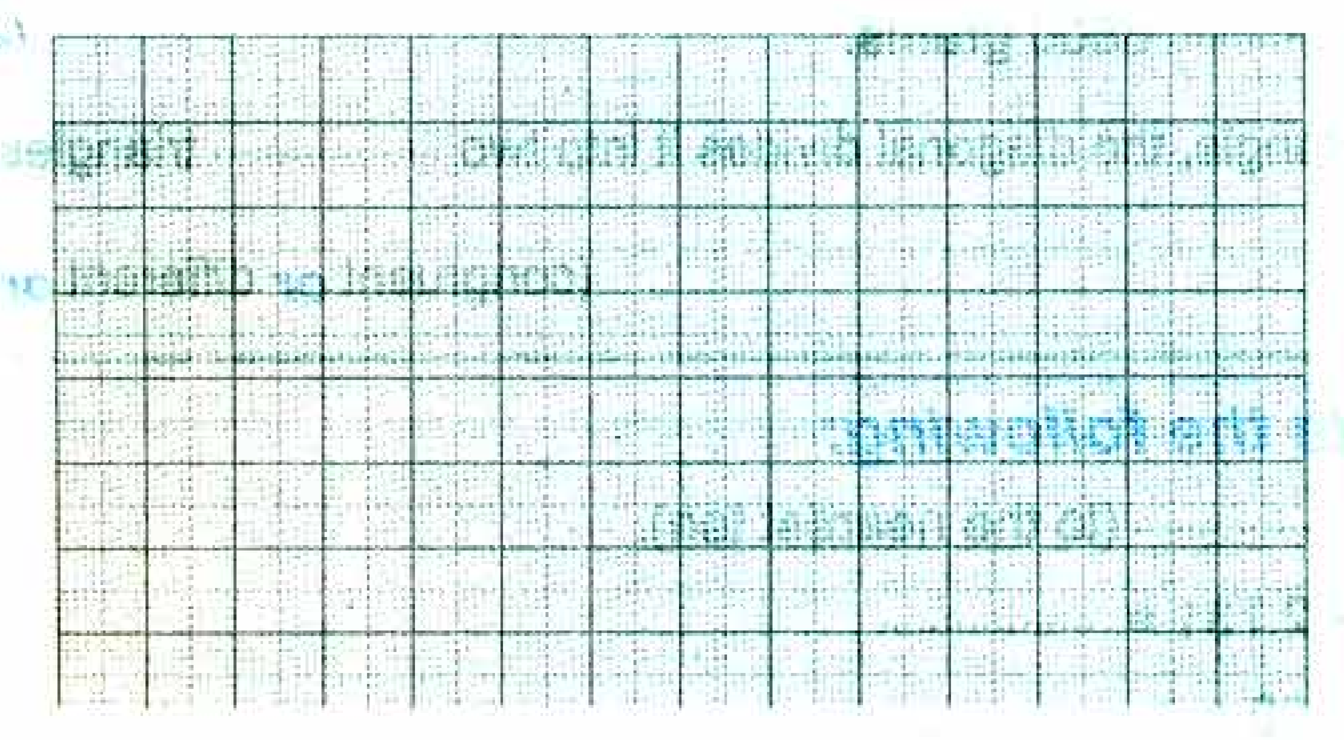
(a) The total price = ...

(b) The remainder = ...

26) **The following table shows the number of absent pupils from the 4th grade and 5th grade in a school within 4 days.**

Grades \ Day	1st	2nd	3rd	4th
Fourth	8	7	6	5
Fifth	6	4	8	5

Represent these data by double bars.



14 Damietta - Educational Directorate of Official Language Schools

1 Choose the correct answer:

1) The value of the digit 7 in the number 0.375 is .... (70 or 7 or 0.7 or 0.07)

2) $3\frac{5}{100}$ = ... (3.05 or 3.5 or 5.03 or 5.3)

3) The number of lines of symmetry of the equilateral triangle = ... (zero or 1 or 2 or 3)

4) 7 litres = ... mL. (70 or 700 or 7000 or 70 000)

5) 4.7 + 3.07 =................. (7.14 or 8.4 or 7.77 or 77.7)

6) The probability of the occurrence of the sure event = ... (1 or 2 or 0.5 or 0)

7) $\frac{9}{4}$ = ... (2.5 or 2.25 or 2.05 or 2.75)

8) 657 $\frac{4}{5}$ ≃ .... (to the nearest unit) (657 or 658 or 655 or 659)

9) The number that is included between 0.6 , 0.7 is .... (0.76 or 0.71 or 0.67 or 0.59)

10) 251056 ≃ 251100 to the nearest .... (10 000 or 1000 or 100 or 10)

11) $\frac{4}{10}$ + 0.6 = ... (4.6 or 6.4 or 1 or 0.1)

12) The number of lines of symmetry of the square .... the number of lines of symmetry of the circle. (< or > or = or otherwise)

13) .... is one of the methods of collecting data.
(Congruence or Equality or Observation or Parallelism)

14) The probability of the occurrence of an even number when tossing a die once = ...
($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

15) 7 kg .... 6500 grams. (< or > or = or otherwise)

16) In a rectangle, the diagonal divides it into two .... triangles.

(congruent or different or equilateral or isosceles)

2 Complete the following:

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17) 456 ≃ .... (to the nearest ten).

18) 52.46 + 2.731 = ...

19) 7485 + 100 = ...



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

20) $\frac{1}{3}$ of a day = ... hours.

21) Two squares are congruent if the side length of one of them .... the side length of the other.

22) A box contains 5 red balls, 3 blue balls and 7 green balls all are equal in size. A ball is drawn blindly, what is the probability that the drawn ball is green?.................. .

3 Answer the following:

23) **Arrange the following in ascending order:** 5.8 , 5.08 , 58 , 8.5

The order is .... , ... , ... and............

24) Mazen has 98.5 pounds, he bought shoes for 76.75 pounds. **What is the remainder with him?**

....

25) **In the opposite figure:**

(a) What is the name of the figure ABCD? ....

(b) How many lines of symmetry does this figure have? ....

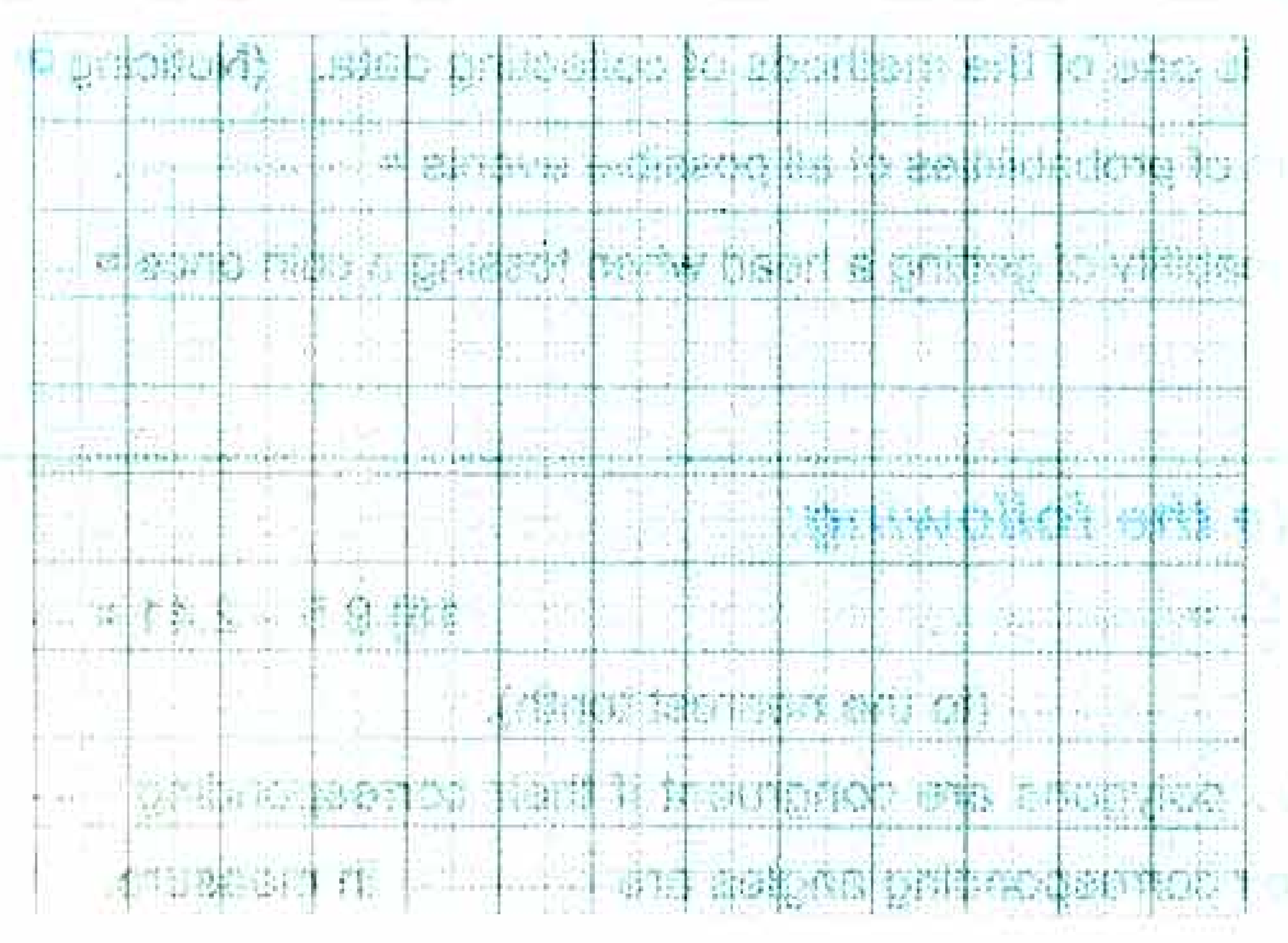
A D B C 3 cm 5 cm



26) **The following table shows the number of hours that Mohamed and Soad spend studying their lessons in 3 weeks.**

Name \ Week	First	Second	Third
Soad	12	10	11
Mohamed	10	7	9

Represent these data by double bars.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

15 Sharkia - Diarb Negm Educational Zone

1 Choose the correct answer:

1) $\frac{2}{3} + \frac{1}{3} =$ .... ($\frac{3}{6}$ or $\frac{1}{3}$ or 1)

2) $\frac{2}{3}$ .... $\frac{4}{6}$ (> or < or =)

3) 0.8 + 0.3 = ... (1.1 or 0.11 or 0.83)

4) The value of (8) in the number 0.084 is .... (0.8 or 0.08 or 8)

5) 4.02 .... 4.2 (> or < or =)

6) $9\frac{3}{10}$ = ... (93 or 930 or 9.3)

7) 362 ÷ 100 = ... (3.62 or 0.362 or 36.2)

8) 2963 ≃ .... (to the nearest hundred) (21000 or 3000 or 2900)

2 Choose the correct answer:

9) The parallelogram has .... lines of symmetry. (0 or 2 or 4)

10) The diagonal of a rectangle divides it into two .... triangles. (congruent or different or isosceles)

11) $3\frac{3}{50}$ =................ (3.35 or 3.6 or 3.06)

12) 2 days and 2 hours = ... hours. (48 or 50 or 22)

13) 3.5 litres =................ mL. (350 or 3500 or 3.05)

14) .... is one of the methods of collecting data. (Noticing or Congruence or Equality)

15) The sum of probabilities of all possible events = ... (1 or 2 or 0)

16) The probability of getting a head when tossing a coin once = ... (0 or 1 or $\frac{1}{2}$)

3 Complete the following:

17) $\frac{5}{6} - \frac{2}{3} =$ ....

18) 9.5 – 2.41 = ...

19) 76.83 ≃ .... (to the nearest tenth).

20) The two polygons are congruent if their corresponding .... are equal in length and their corresponding angles are .... in measure.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem | موقع ذاكرولى التعليمى | الصف الرابع الابتدائى

21) 7 250 kg = ... tons.

22) The probability of getting an even number when tossing a die once =............... .

4 Answer the following:

23) **Arrange the following numbers in descending order:**

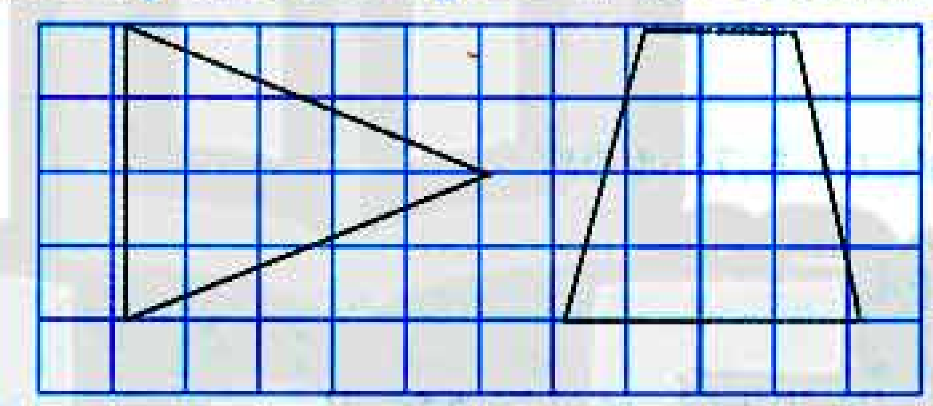
0.3 , 3.3 , 33 , 0.03

The order is: .... , ... , ... and ....

24) Hassan has $3\frac{1}{4}$ pounds and his sister Hend has P.T 975. **Find the sum of money that Hassan and Hend have.**

The sum of money = ...

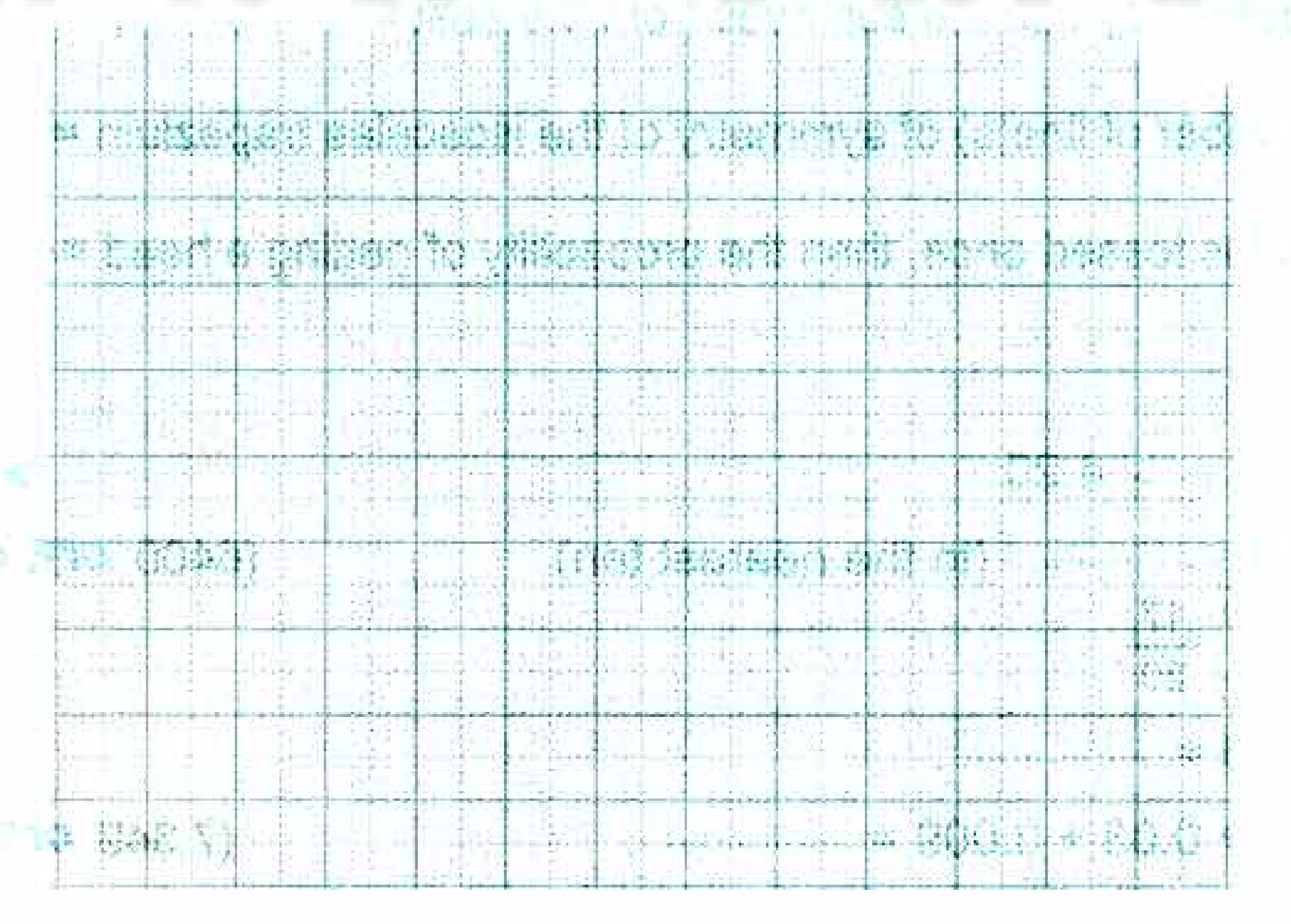
25) **Draw the line of symmetry of each figure of the following:**



26) **The table below shows the number of hours that Walid and Ali spend studying their lessons in two days of a week.**

Day / Name	Saturday	Sunday
Walid	4	2
Ali	1	5

Represent these data by double bars.





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





16 Port Said - Educational Directorate - Maths Inspectorate

1 Complete the following:

1) 7 642 ≃ .... (to the nearest 1000)

2) $\frac{1}{4} + \frac{3}{4} =$ ....

3) $5\frac{1}{3} = \frac{.....}{3}$.

4) The probability of the impossible event = ...

5) 5 tons = ... kg.

6) Two rectangles are congruent if the two dimensions of one of them are .... to the two dimensions of the other.

2 Choose the correct answer:

7) 2 litres = ... mL. (2 or 20 or 200 or 2000)

8) 4576 ≃ .... (to the nearest hundred) (4500 or 4600 or 5000 or 4000)

9) The number of line(s) of symmetry of the square = ... (0 or 1 or 2 or 4)

10) 9 079 ≃ 9000 (to the nearest ....). (10000 or 1000 or 100 or 10)

11) The number of lines of symmetry of the equilateral triangle = ... (3 or 2 or 1 or 0)

12) 3 days = ... hours. (24 or 48 or 72 or 96)

13) The probability that the sun rises from the east = ... (0 or 0.5 or 1 or 2)

14) The number of line(s) of symmetry of the isosceles trapezium = ... (1 or 2 or 3 or 4)

15) If a coin is tossed once, then the probability of getting a head = ...

(0 or $\frac{1}{2}$ or 1 or 2)

16) 4.2 .... 4.20. (> or = or < or otherwise)

17) 6 457 ≃ .... (to the nearest ten). (6400 or 6 460 or 6 500 or 64 570)

18) $\frac{7}{20}$ .... $\frac{17}{20}$. (> or = or < or ≃)

19) $\frac{4}{10} + 0.6 =$ .... (4.6 or 6.4 or 1 or 0.1)

20) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 or 7.934 or 74.39 or 7.439)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

21) The value of the digit (7) in the number 0.375 is .... (0.07 or 0.7 or 7 or 70)

22) The probability of getting an odd number on the upper face of a die = ...

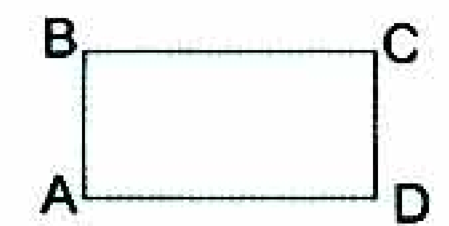
($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

3 *Find:*

23) 36.48 – 18.37 = ... ≃ .... (to the nearest tenth)

24) 74 852 ÷ 1000 = ... ≃ .... (to the nearest unit)

25) **From the opposite figure, answer the following questions:**



1) What is the name of the figure ABCD? ....

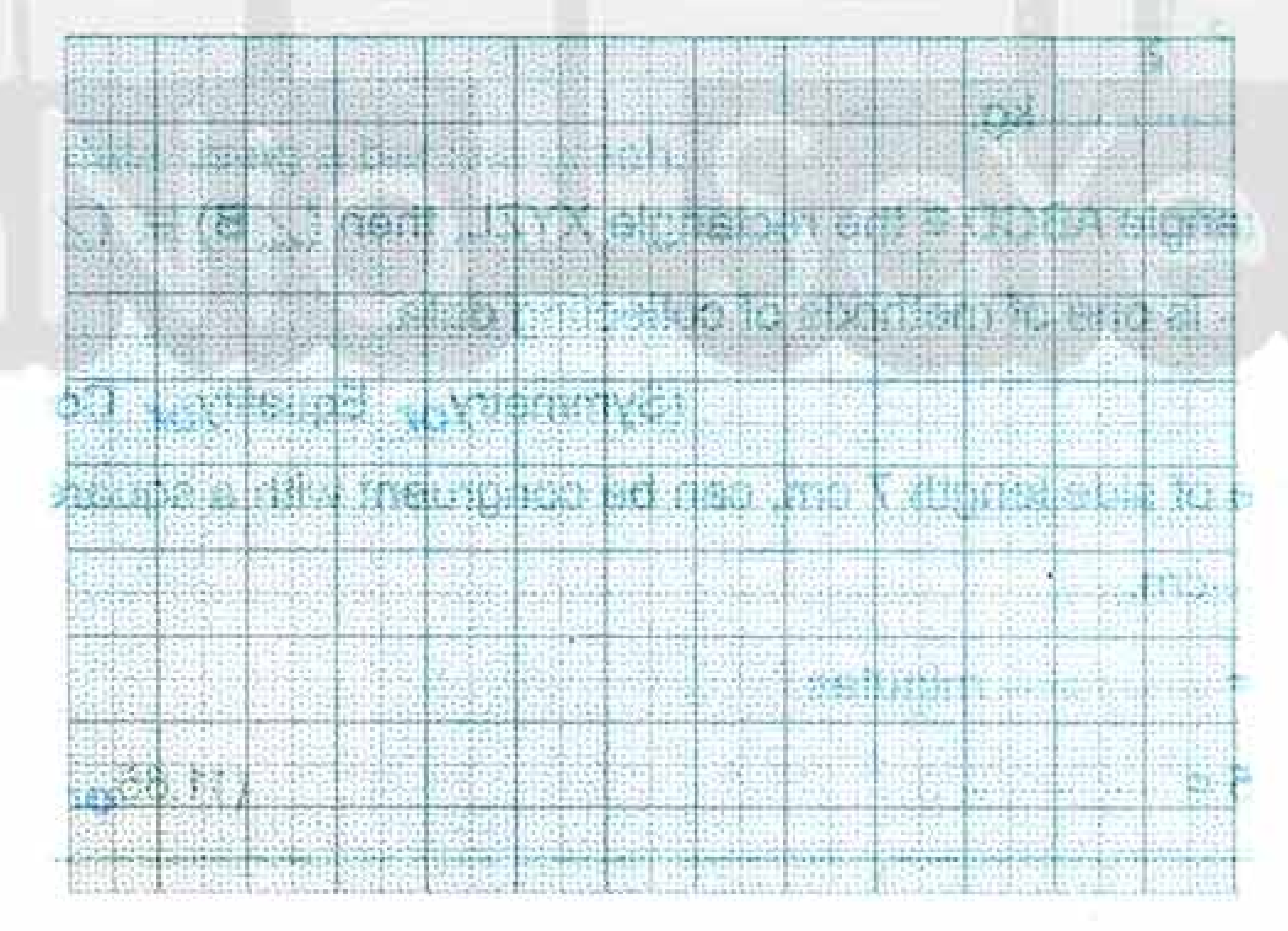
2) How many lines of symmetry does the figure have? ....

3) Draw the line which divides it into two congruent parts.

26) **The table below represents the number of pupils in the first four grades in a primary school.**

Grades	First	Second	Third	Fourth
Number of pupils	60	80	100	70

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

17 Ismailia - Directorate of Education - Al-Manar Language School

1 Choose the correct answer:

1) $7\frac{3}{5}$ = ... ($\frac{15}{5}$ or $\frac{28}{5}$ or $\frac{38}{5}$ or $\frac{35}{6}$)

2) The value of 8 in 39.48 = ... (0.8 or 0.08 or 0.008 or 80)

3) The probability of the appearance of an odd number when tossing a die once = ... (0.5 or $\frac{1}{3}$ or $\frac{1}{6}$ or $\frac{3}{4}$)

4) 0.2 + ... = 1 (1.2 or 2.1 or 0.8 or 0.3)

5) The number of lines of symmetry of a rectangle is .... (1 or 2 or 3 or 4)

6) $\frac{1}{4}$ = ... (0.5 or 0.14 or 1.4 or 0.25)

7) 9382 (to the nearest 100) ≃ .... (9 300 or 9 400 or 9 380 or 9 390)

8) 7 980 ÷100 = ... (7.98 or 79.8 or 0.798 or 798)

9) The probability of the certain event = ... (0 or 1 or 2 or 0.5)

10) 3.5 .... $3\frac{1}{2}$. (< or = or > or ≥)

11) 5 tons =..................kg. (50 or 500 or 5000 or 5)

12) The rectangle ABCD ≡ the rectangle XYZL, then (∠B) ≡ (∠.........). (A or X or Y or Z)

13) .... is one of methods of collecting data. (Symmetry or Equality or Congruence or Observation)

14) A square of side length 7 cm, can be congruent with a square of side length = ...cm. (5 or 6 or 7 or 8)

15) 2 hours = ... minutes. (120 or 90 or 180 or 60)

16) 13 – 2.65 = ... (11.65 or 15.65 or 10.53 or 10.35)

2 Complete the following:

17) 7 234 ≃ 7000 (to the nearest ....).

18) Three and seven tenths in digits = ...

19) 5.5 , 6.6 , ... , ... , ... (in the same pattern)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

20) A bag contains 5 red balls and 4 white balls. If one ball is drawn at random, then the probability that the drawn ball is red = ...

21) Two squares are congruent if their side lengths are ....

22) $\frac{40}{25} = \frac{......}{5}$

3 Find the result:

23) $\frac{1}{2} + \frac{1}{3} =$ ....

24) 86.70 + 3.45 = ... ≃ .... (to the nearest tenths)

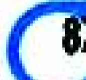
25) Mostafa had 25.36 pounds, if he bought a toy for 13.42 pounds, then what was remained with him?

The remainder = ...

26) The following table shows the number of pupils in first five grades in a primary school:

Grades	First	Second	Third	Fourth	Fifth
Number of pupils	30	25	20	35	40

Represent these data using a bar line graph.



ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

18 Suez - Directorate of Education - Maths Inspectorate

1 Choose the correct answer:

1) The number of axes of symmetry of a square is .... (0 or 2 or 4)

2) $3\frac{5}{100}$ = ... (3.05 or 3.5 or 5.3)

3) The probability of the occurrence of the sure event = ... (0 or 1 or 0.5)

4) $\frac{1}{2}$ litre = ... cm^3. (5 or 50 or 500)

5) 8781 ≃ .... to the nearest hundred. (8800 or 8700 or 8600)

6) In the rectangle the diagonal divides it into two .... triangles.

(different or congruent or isosceles)

7) 3 days = ... hours. (24 or 48 or 72)

8) $\frac{1}{3}+\frac{2}{3}$ = ... $(1 \text{ or } \frac{3}{6} \text{ or } \frac{1}{3})$

9) The value of the digit (8) in the number 0.486 is .... (8 or 0.08 or 0.8)

10) 4.2 .... 4.20. (> or < or =)

11) The smallest prime number is .... (2 or 1 or 0)

12) .... is one of the units that are used for measuring length. (Kg or Km or Litre)

13) $\frac{1}{2}$ hour = ... minutes. (50 or 12 or 30)

14) 364 ≃ 360 to the nearest .... (ten or unit or tenth)

2 Complete the following:

15) 5 kg, 375 gm = ... gm.

16) The probability of the appearance of a tail when tossing a coin once = ...

17) $5\frac{1}{3} = \frac{\dots\dots}{3}$

18) 8.3 tons = ... kg.

19) Two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

20) 53.8 ≃ .... to the nearest unit.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

3 Find the result of the following:

21) Arrange in ascending order: 5.8 , 8.05 , 58 , 8.5

The order is: ………… , ………… , ………… and…………

22) 2379 ÷ 100 = ………….

23) 96.8 – 63.31 = ………….

24) $\frac{7}{10}$ + 0.8 = ………….

25) Complete the following:

a) The number of lines of symmetry of the equilateral triangle = ………….

b) 2 minutes = ………… seconds.

c) $\frac{2}{5} = \frac{\dots}{15}$.

d) A box contains 4 blue balls, 2 red balls and 3 green balls, all are equal in size. If a ball is drawn randomly, find:

1) The probability of drawing a blue ball = ………… .

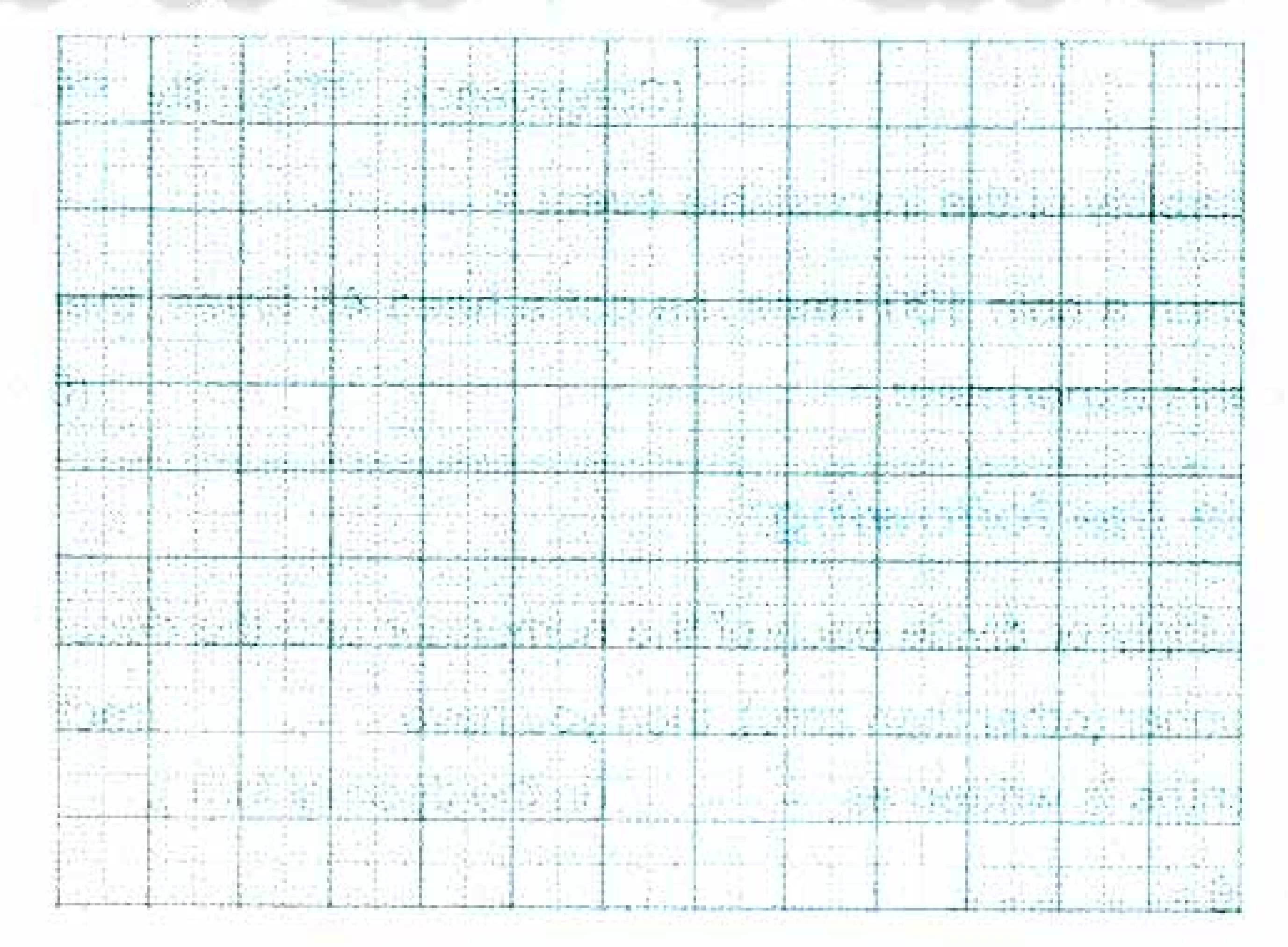
2) The probability of drawing a red ball = ………… .

e) $\frac{17}{5}$ = ……… $\frac{\dots}{5}$ (as a mixed number)

26) The following table shows the number of hours that Waleed and Hany spend studying their lesson in 3 days:

Time \ Day	Saturday	Sunday	Monday
Waleed	4	3	5
Hany	5	4	6

Represent these data by double bars.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Gem  موقع ذاكرولى التعليمى الصف الرابع الابتدائى

19 South Sinai - Math Supervision

1 Choose the correct answer:

1) $1\frac{1}{2}$ as an improper fraction .... ($\frac{1}{2}$ or $\frac{2}{2}$ or $\frac{3}{2}$ or $\frac{4}{2}$)

2) $\frac{3}{5} = \frac{\dots\dots}{10}$ (3 or 4 or 5 or 6)

3) $1\frac{3}{100}$ = ... (in a decimal from) (1.3 or 1.03 or 0.13 or 0.013)

4) The number 17.92 lies between .... and ....
(15 , 16 or 16 , 17 or 17 , 18 or 18 , 19)

5) 508 .... 436.9. (> or < or = or ≤)

6) 78 ÷ 10 = ... (780 or 78 or 7.8 or 0.78)

7) 1.1 , 2.2 , 3.3 , 4.4 , ... are called ....
(prime numbers or even numbers or odd numbers or decimal numbers)

8) 3.25 ≃ .... to the nearest tenth. (3.4 or 3.3 or 3.2 or 3.1)

9) 0.6 + ...= 1 (0.1 or 0.2 or 0.3 or 0.4)

10) In the rectangle, the diagonal divides it into two .... triangles.
(congruent or different or isosceles or equilateral)

11) The number of lines of symmetry of the square = ... (6 or 4 or 3 or 2)

12) 4750 kg = ... tons. (75 or 47 or 45 or 4.75)

13) 84 hours =................. days. (8 or 4.8 or $3\frac{1}{2}$ or $3\frac{1}{4}$)

14) .... is one of the methods of collecting data.
(Congruence or Equality or Observation or Parallelism)

15) The probability of the impossible event = ... (zero or $\frac{1}{2}$ or 1 or 2)

16) Kamel spun a coin 100 times, he got a head 45 times, then the probability of getting a tail in this experiment = ... (0.45 or 0.55 or 100 or 145)

2 Complete the following:

17) If you multiply or divide each of the numerator and the denominator of a fraction by the same number (other than zero), then you have .... fractions.

18) Three tenths is written as .... (in the decimal form).

19) $\frac{4}{10}$ + 0.6 =.................


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

20) Any two polygons are congruent if their corresponding sides are equal in length and their corresponding ....are equal in measure.

21) 3 litres = ... millilitres.

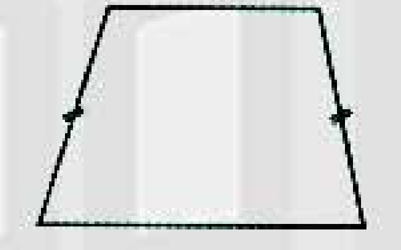
22) The sum of the probabilities of all possible outcomes of a random experiment = ...

3 *Find the result of the following:*

23) 36.48 – 18.37 = ... ≃ .... to the nearest unit.

24) 893.44 + 987.56 = ... ≃ .... to the nearest hundred.

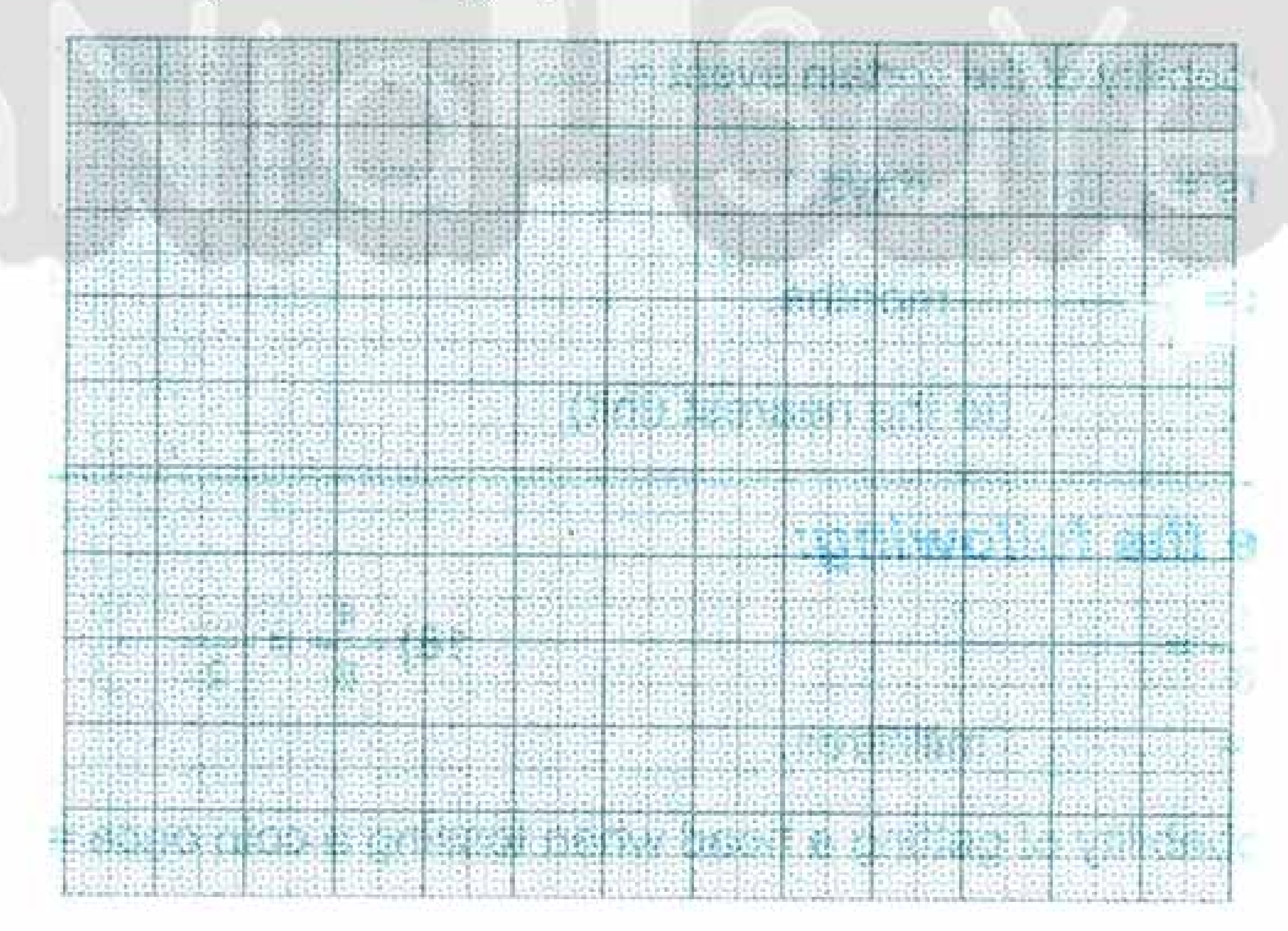
25) Using your geometric tools, draw the lines of symmetry of this figure = ...

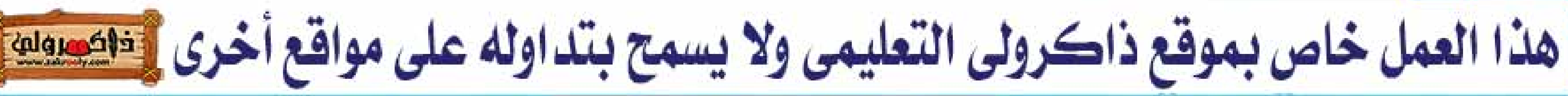


26) **The following table shows the number of travellers in the first four carriages of a train:**

Carriages	First	Second	Third	Fourth
Number of travellers	60	55	70	65

Represent these data by a bar line graph.




هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

20 Fayoum - Tamia Educational Directorate

1 Choose the correct answer:

1) 0.4 + ... = 1 (0.6 or 0.39 or 1.4 or 0.3)

2) Among the methods of collecting data is .... (congruence or symmetry or observation or parallelism)

3) 6 thousandths = ... (6 or 0.6 or 0.06 or 0.006)

4) $\frac{17}{5}$ = ... ($3\frac{1}{5}$ or $3\frac{2}{5}$ or $2\frac{3}{5}$ or 0.3 or $2\frac{4}{5}$)

5) The decimal number that is included between 0.1 and 0.2 is .... (0.01 or 0.19 or 0.3 or 0.21)

6) The number of line(s) of symmetry of the square is .... (1 or 2 or 3 or 4)

7) The value of the digit 3 in the number 0.375 is .... (300 or 30 or 0.3 or 0.03)

8) 3500 grams = ... kilograms (3 or $3\frac{1}{2}$ or $3\frac{1}{4}$ or 35)

9) $\frac{7}{20}$ .... $\frac{17}{20}$ (= or > or < or ≃)

10) The probability of getting an even number in the upper face as throwing a die once = ... (1 or 0 or $\frac{1}{2}$ or $\frac{1}{6}$)

11) If the side length of a square is 5 cm, then its perimeter = ...cm (20 or 25 or 28 or 5)

12) 685.81 ≃ .... (to the nearest ten). (685.8 or 680 or 690 or 685)

13) The probability of the certain event =................ . (0 or 1 or 2 or $\frac{1}{2}$)

14) 48 hours = ... days. (1 or 2 or 3 or $\frac{1}{2}$)

15) 2 years = ... months. (60 or 24 or 12 or 120)

16) $2\frac{3}{5}$ = ... (to the nearest unit) (2 or 3 or 2.6 or 2.3)

2 Complete the following:

17) $\frac{1}{3} + \frac{1}{6}$ = ...

18) $\frac{4}{8} = \frac{....}{2}$

19) 8 litres = ... millilitres.

20) The probability of getting a head when tossing a coin once = ...

21) 5.63 + 11.25 = ... ≃ .... (to the nearest unit)

22) Two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

3 *Answer the following:*

23) **Arrange in ascending order:** 8.3 , $8\frac{1}{4}$, $8\frac{1}{2}$, 8.4

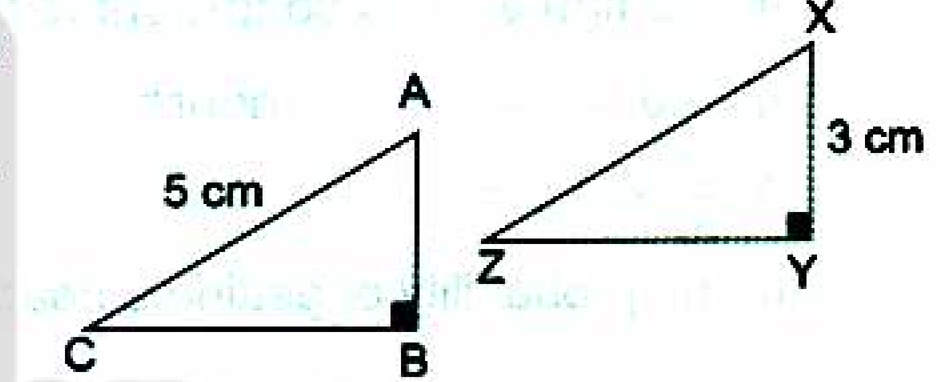
The order is: .... , ... , ... and............

24) Mariam bought some notebooks for 32.75 pounds, and a book for 26.25 pounds. If she has one hundred pounds, **find the money left with her.**

What she paid = ...

What was left = ...

25) **In the opposite figures:** $\Delta ABC \equiv \Delta XYZ$, then:

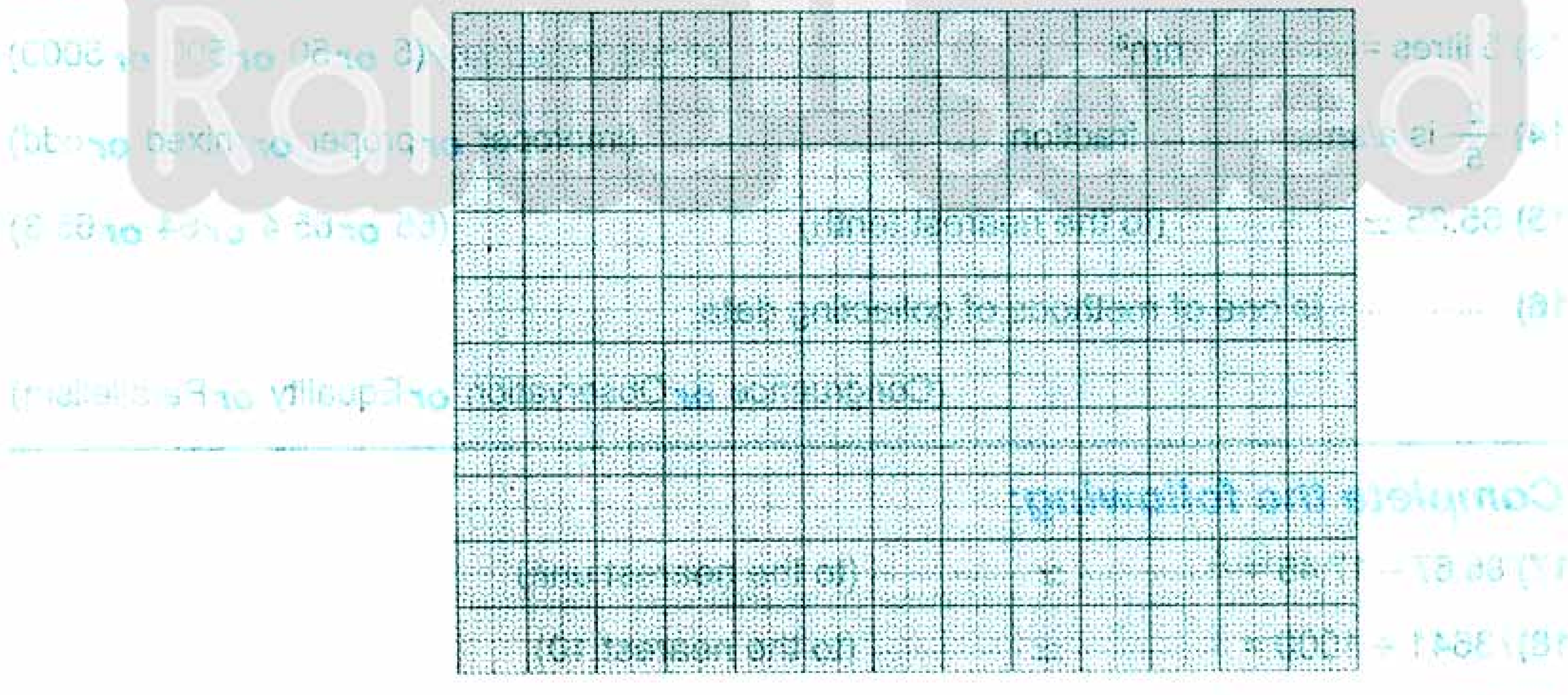


1) XZ = ... cm. 2) $\angle B \equiv \angle$ ....

3) AB = ... cm. 4) $\overline{YZ} \equiv$ ....



26) **The table below represents the savings of Hanaa and Soad in four months. Represent these data by double bar graph:**



Name \ Month	January	February	March	April
Hanaa	20	60	40	80
Soad	50	80	90	40

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

21 Beni Suef - Directorate of Official Lang.School

1 Choose the correct answer:

1) The value of the digit 8 in the number 0.486 is .... (8 or 0.8 or 0.08 or 80)

2) The probability of the certain event = ... (zero or 0.5 or 1 or 2)

3) $\frac{3}{4}$ = ... (0.75 or 0.8 or 0.25 or 0.50)

4) 3279 ÷ 1000 = ... (3.279 or 32.79 or 327900 or 0.3279)

5) The figure ◯ is congruent to the figure .... (◯ or □ or △ or ▯)

6) 2 days = ... hours (24 or 48 or 72 or 92)

7) $\frac{4}{10}$ + 0.6 = ... (4.6 or 6.4 or 1 or 0.1)

8) The probability of getting a head when tossing a coin once = ...
(0 or $\frac{1}{2}$ or 1 or 2)

9) 4.7 + 3.07 =................. (7.14 or 8.4 or 7.77 or 3.14)

10) The number of lines of symmetry of the equilateral triangle is ....
(3 or 2 or 1 or 0)

11) The number of lines of symmetry of the square = ... (2 or 3 or 4 or 6)

12) 4.2 .... 4.20. (< or = or > or ≤)

13) 5 litres =................ dm^3 (5 or 50 or 500 or 5000)

14) $\frac{2}{5}$ is a/an .... fraction. (improper or proper or mixed or odd)

15) 65.35 ≃ .... (to the nearest tenth) (65 or 65.4 or 64 or 65.3)

16) .... is one of methods of collecting data.
(Congruence or Observation or Equality or Parallelism)

2 Complete the following:

17) 86.67 – 17.45 = ... ≃ .... (to the nearest unit)

18) 73641 ÷ 1000 = ... ≃ .... (to the nearest 10)

19) The number 5.7 = 5 + ...

20) If Δ ABC ≡ Δ DEF, then $\overline{BC}$ ≡ ....

21) $\frac{1}{2}$ ton = ... kg

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

22) A basket contains 5 white balls, 3 yellow balls and 2 green balls. If you drawn one ball, then the probability of getting a white ball = ...

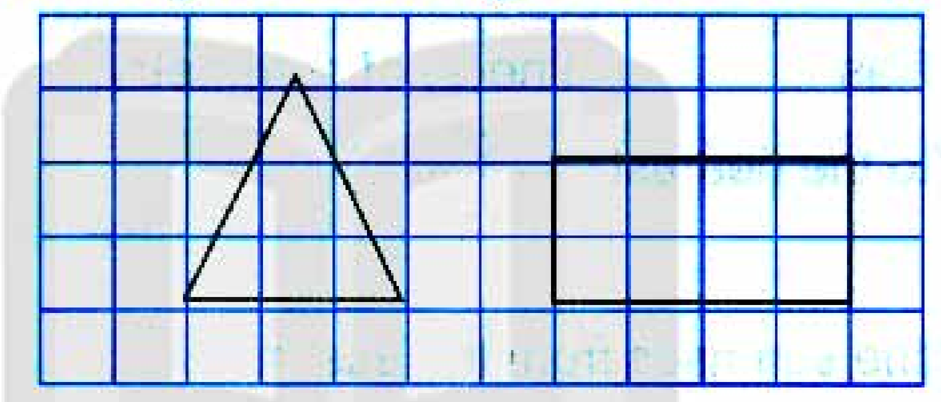
3 Find the result of the following:

23) **Arrange the following numbers in ascending order:** 5.8 , 5.08 , 58 , 8.5

The order is: .... , ... , ... and ....

24) 348.6 ≃ .... (to the nearest unit)

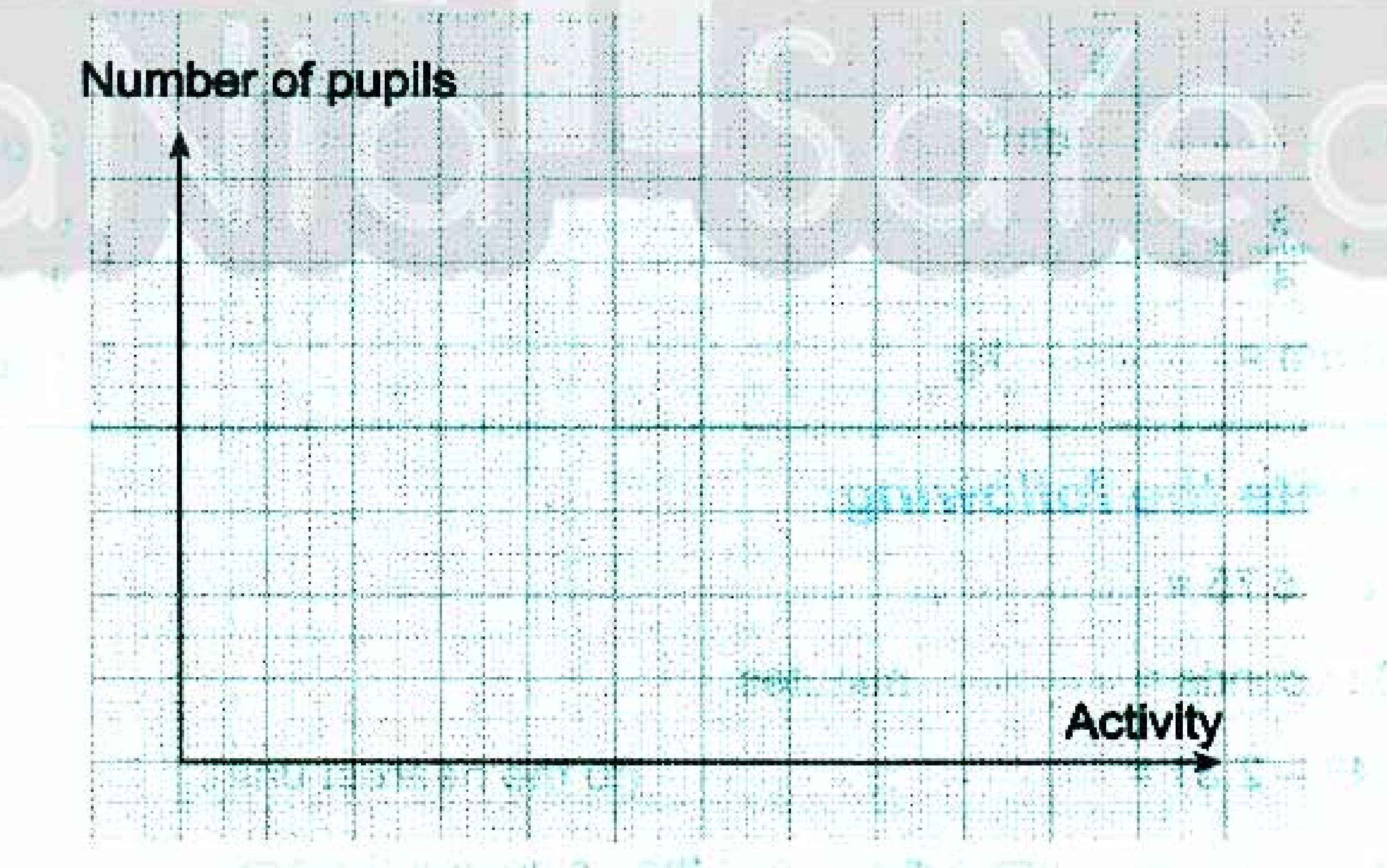
25) **Draw the lines of symmetry for each figure of the following**



26) **The following table shows the number of pupils participating in school activities:**

Activity	Sports	Art	Cultural	Music
Number of pupils	50	30	40	20

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

22 Minia - El Minia Educational Zone Kafr El-Mansoura Formal Language

1 Choose the correct answer:

1) $\frac{15}{25}$ = ... ($\frac{3}{5}$ or $\frac{2}{5}$ or $\frac{1}{3}$ or $\frac{5}{3}$)

2) 4.7 tons = ...kg (4700 or 470 or 47 or 47000)

3) $7\frac{3}{5}$ = ... (7.3 or 7.6 or 7.5 or 5.7)

4) $\frac{1}{3}$ of day = ... hours (7 or 8 or 6 or 4)

5) The parallelogram has .... line(s) of symmetry. (2 or 1 or 0 or 4)

6) 364075 ≃ 364100 (to the nearest ....) (10 or 100 or 1000 or 10 000)

7) $\frac{23}{2}$ = ... (11.2 or 11.5 or 11.02 or 11.3)

8) The probability that the sun rises from the east = ... (0 or $\frac{1}{2}$ or 1 or 2)

9) 21395 ≃ ....(to the nearest ten) (21390 or 21400 or 21305 or 21395)

10) 48597 ÷ 100 = ... (485.97 or 48.597 or 4859.7 or 48597)

11) The probability of getting an odd number when tossing a die once = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{3}{4}$)

12) 35.4 = ... ($\frac{354}{10}$ or $\frac{354}{100}$ or $\frac{354}{1000}$ or 3540)

13) $\frac{6}{7}$ .... $\frac{5}{6}$ (< or = or > or ≥)

14) 3 litres .... dm^3 (3 or 30 or 300 or 3000)

15) $\frac{3}{5} + \frac{3}{4}$ = ... ($\frac{6}{9}$ or $\frac{27}{20}$ or $\frac{9}{20}$ or $\frac{3}{9}$)

16) 500 gm = ... kg ($\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{3}{4}$)

2 Complete the following:

17) 13.8 + 5.75 = ...

18)120 seconds = ... minutes.

19) 52.46 – 2.31 = ... ≃ .... (to the nearest unit).

20) The two squares are congruent if their side lengths are ....

21) 1 – 0.6 = ...

22) 7000 millilitres = ... litres.

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Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

3 Answer the following:

23) **Arrange the following numbers in ascending order:** 0.3 , 0.003 , 0.033 , 0.33

The order is: ………… , ………… , ………… and…………

24) A box contains 4 blue balls, 2 red balls and 3 green balls, all are equal in size. **If a ball is drawn blindly, complete:**

a) The probability of drawing a blue ball = ……………………

b) The probability of drawing a non-red ball = 1 – $\frac{\cdots}{\cdots}$ = ……………………

25) Mazen has 35 pounds. He bought a ball for 12.75 pounds and a book for 17.25 pounds. **What is the remainder with him?**

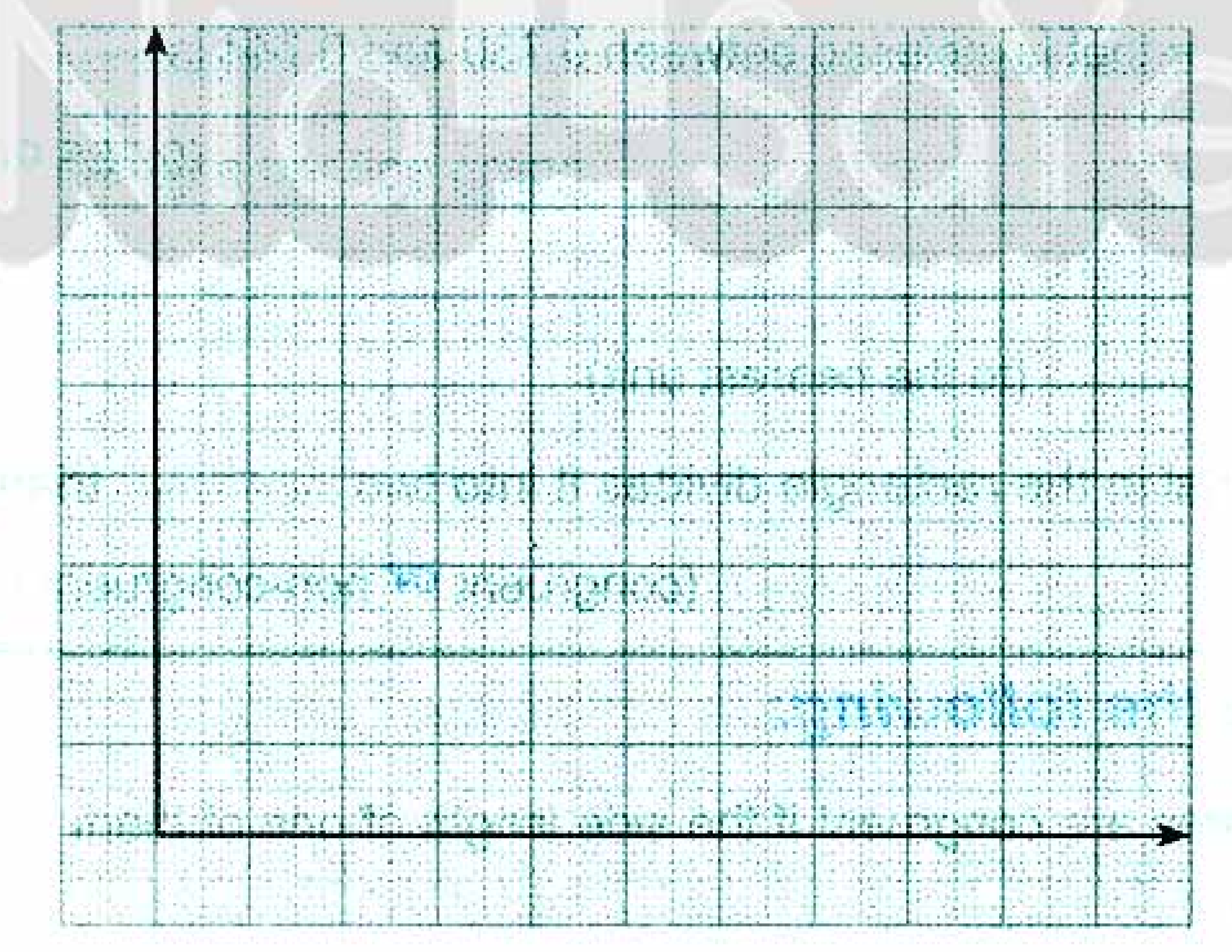
He paid = ………………………………………………………………………………

The remainder = ……………………………………………………………………

26) **The following table represents the number of participants in some activities:**

Activity	Social	Cultural	Sports	Art
Number of participants	30	20	70	40

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

23 Assuit - Directorate of Education - Administration of Distinguished Language Schools

1 Choose the correct answer:

1) The value of the digit (7) in the number 0.735 is .... (7 or 70 or 0.7 or 0.07)

2) The probability of the certain event is .... (0 or 1 or 2 or 0.5)

3) The number of lines of symmetry of the equilateral triangle = ... (3 or 2 or 1 or 0)

4) 3.5 tons = ... kg (35 or 350 or 3500 or 35000)

5) 6457 ≃ .... (to the nearest hundred) (640 or 6400 or 64500 or 6500)

6) 3279 ÷ 100 = ... (0.3279 or 3279 or 32.79 or 32 7900)

7) The number of axes of symmetry of a square = ... (0 or 2 or 3 or 4)

8) The probability of getting a head as throwing a metallic coin = ...

(0 or $\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{1}{6}$)

9) $\frac{5}{7} = \frac{30}{......}$ (42 or 24 or 35 or 53)

10) 2.65 + 9.3 = ... (35.8 or 11.68 or 11.95 or 5.37)

11) 2 days = ... hours (24 or 48 or 72 or 96)

12) The probability of getting an odd number when tossing a die once = ...

(0 or 1 or $\frac{1}{2}$ or $\frac{1}{3}$)

13) The number that is included between 0.730 and 0.744 is ....

(0.755 or 0.753 or 0.725 or 0.735)

14) $3\frac{1}{4}$ = ... ($\frac{13}{4}$ or $\frac{4}{13}$ or $\frac{8}{4}$ or $\frac{13}{3}$)

15) 28.3 ≃ .... (to the nearest unit) (3 or 28 or 20 or 28.1)

16) The digonal in the rectangle divides it into two .... triangles.

(congruent or non-congruent or isosceles or equilateral)

2 Complete the following:

17) Two squares are congruent if the side length of one of them .... the side length of the other.

18) 7 litres = ... millilitres

19) 12.78 – 3.5 = ...

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20) The probability of getting number 5 when rolling a die = ...

21) $4\frac{7}{50}$ = ... (in decimal form)

22) 3.4 = 3 + ...

3 Find the result of each of the following:

23) Mazen has 35 pounds. He bought a ball for 12.75 pounds and a book for 17.25 pounds.
How much many was left with him?

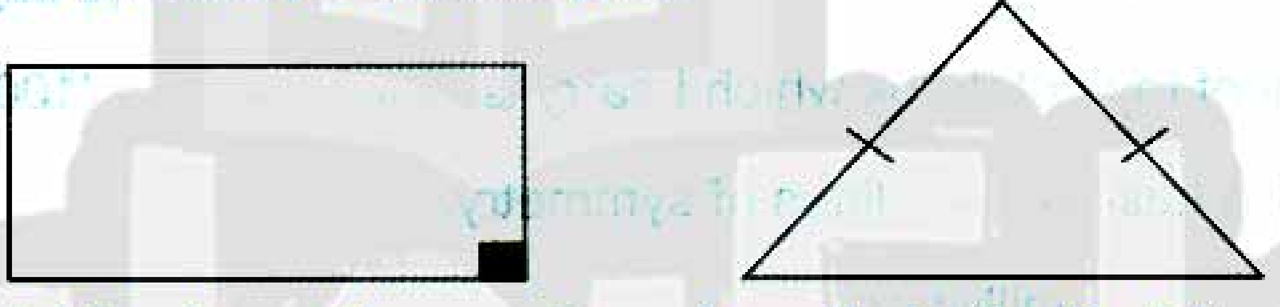
He paid = ...

The remainder = ...

24) **Arrange the following numbers in ascending order:** 5.8 , 5.08 , 8.5 , 8.05

The order is: .... , ... , ... and............

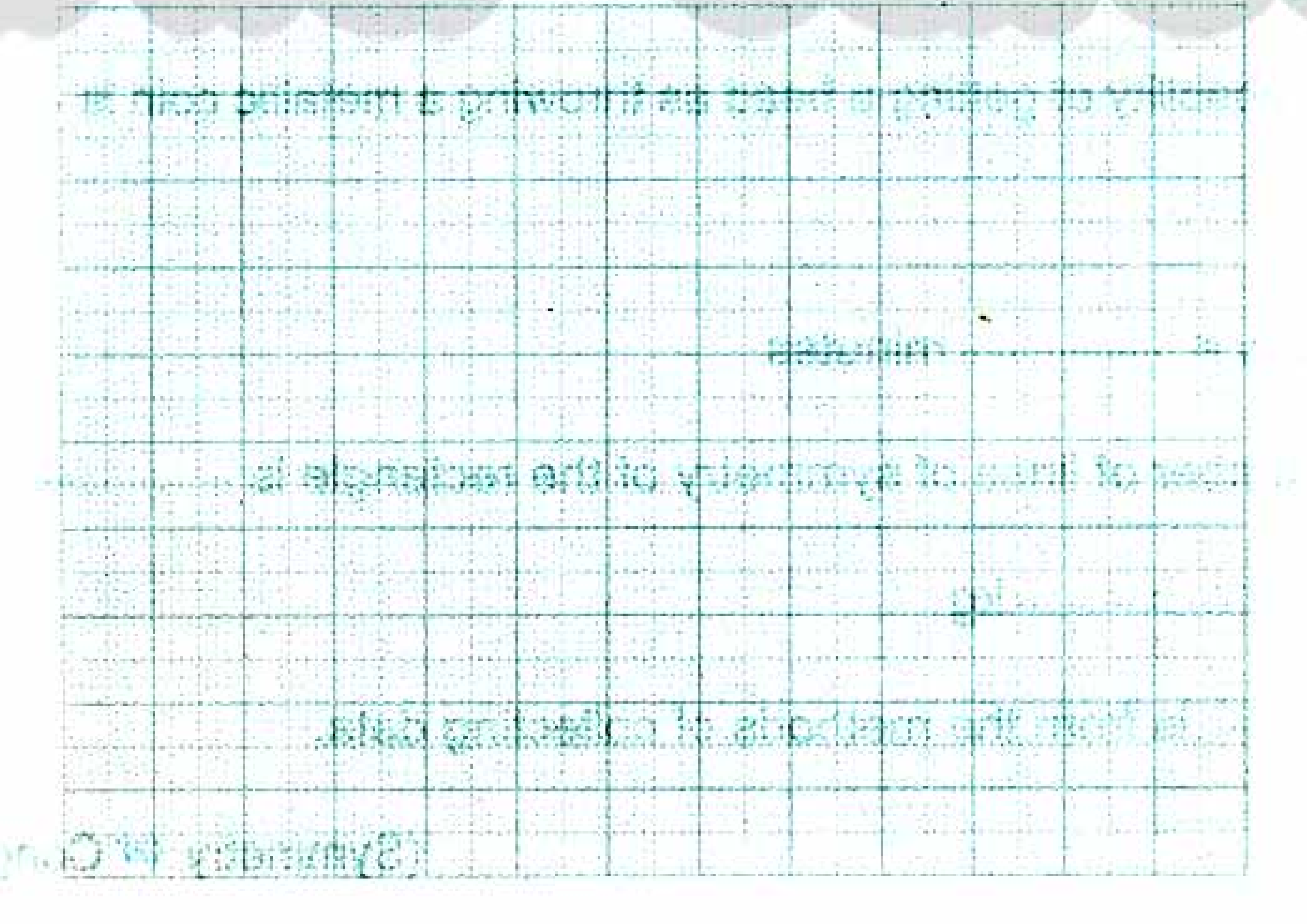
25) **Draw the lines of symmetry of each figure:**



26) **The following table shows the number of pupils in the first four grades in a primary school:**

Grades	First	Second	Third	Fourth
Number of pupils	60	80	100	70

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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الصف الرابع الابتدائى

24 Qena - Directorate of Education-Maths Supervision

1 Choose the correct answer:

1) 236 ≃ .... (to the nearest ten) (200 or 240 or 230)

2) 5470 ÷ 100 = ... (54.7 or 547 or 5.47)

3) The equilateral triangle has .... line(s) of symmetry. (2 or 3 or 1)

4) $\frac{4}{10}$ + 0.2 = ... (4.2 or 0.6 or 2.4)

5) 11.25 + 10.15 = ... (21.25 or 21.40 or 22)

6) 9 $\frac{7}{10}$ = ... (9.07 or 9.7 or 9.007)

7) 48 hours = ... (3 days or two days or 4 days)

8) The weight of my notebook which I carry is .... (100 gm or 10 gm or $\frac{1}{2}$ gm)

9) The rhombus has................lines of symmetry. (4 or 2 or 6)

10) 1 litre = ... millilitres (100 or 1000 or 10)

11) $\frac{7}{20}$ .... $\frac{17}{20}$ (< or > or =)

12) 29.095 ≃ .... (to the nearest tenth) (29.1 or 30 or 29.11)

13) The capacity of a cup of tea .... (3 litres or 25 millilitres or 200 millilitres)

14) 457 $\frac{1}{5}$ = ... (to the nearest whole number) (457 or 458 or 455)

15) The probability of getting a head as throwing a metallic coin is ....

(zero or $\frac{1}{2}$ or 1)

16) One day = ... minutes (24 or 1440 or 60)

17) The number of lines of symmetry of the rectangle is .... (4 or 2 or 1)

18) 4.5 tons .... kg (45 or 4500 or 450)

19) .... is from the methods of collecting data.

(Symmetry or Congruence or Observation)


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2 Complete the following:

20) 3 days = ... hours

21) 750 000 millilitres = ... litres.

22) .... is one of the units of measuring length.

23) 4275 ≃ .... (to the nearest 1000)

24) .... is one of units of measuring capacity.

25) 4957 ÷ 10 = ...

26) The sun rises from the west is a/an .... event.

27) The isosceles triangle has .... line(s) of symmetry.

3 Find the result of each of the following:

28) A box contains 4 blue balls, 5 red balls and 6 green balls. If a ball is drawn blindly, complete:

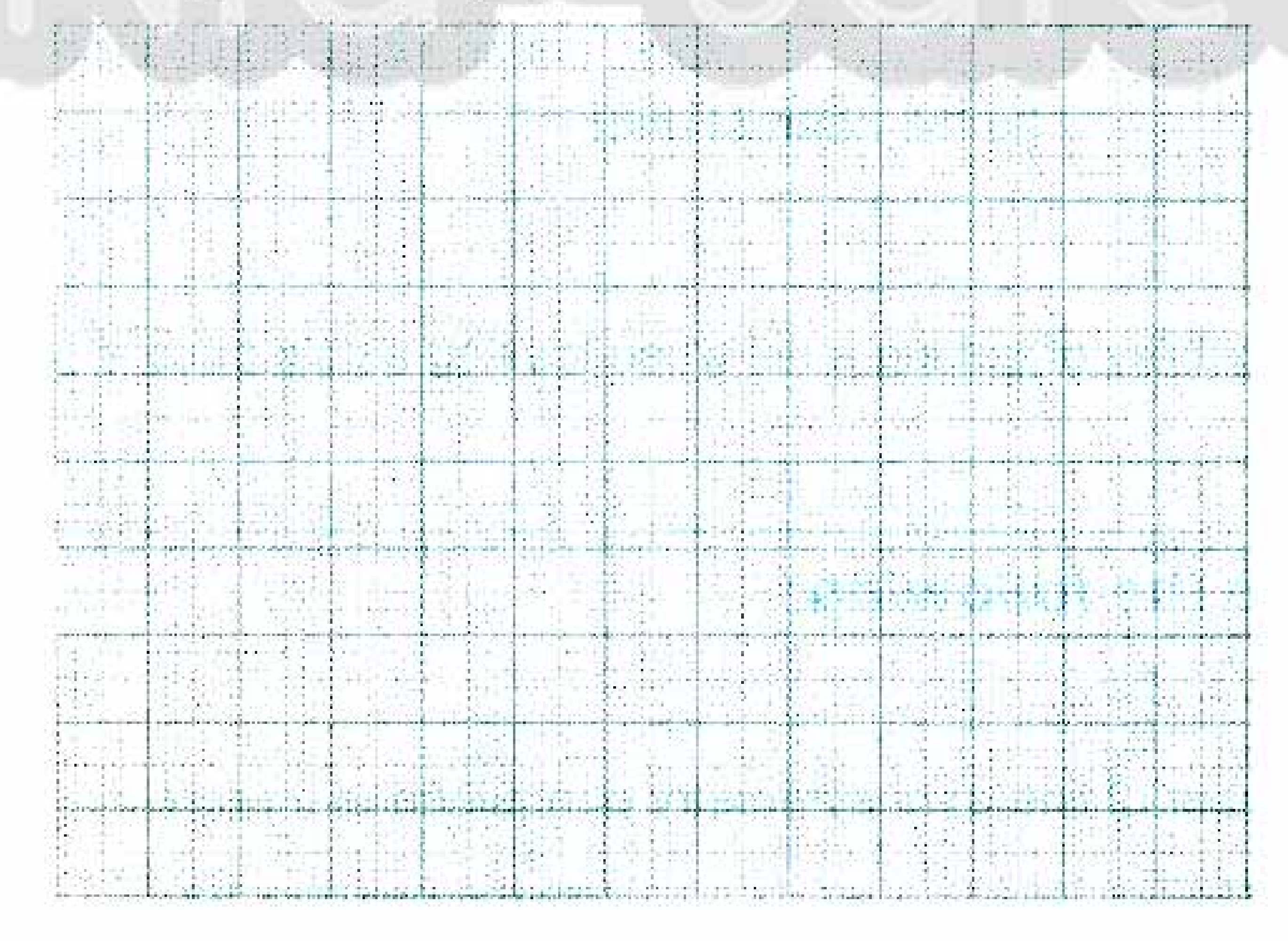
a) The probability that the ball is red = ...

b) The probability that the ball is green = ...

29) The following table shows the number of participants in some activities in a school:

Activities	Sports	Social	Art	Music
Number of pupils	60	50	20	40

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

25 Sohag - Akhmeem Educational Management

1 Choose the correct answer:

1) The value of the digit (3) in the number 7.38 is .... (1 or 3 or 0.3 or 0.03)

2) $\frac{5}{7} = \frac{30}{......}$ (20 or 42 or 35 or 40)

3) $5\frac{7}{10}$ = ... (5.07 or 5.7 or 5.007 or 7.5)

4) $\frac{1}{2}$ hour = ... min. (60 or 30 or 15 or 10)

5) The probability of impossible event = ... (0 or $\frac{1}{2}$ or $\frac{1}{3}$ or 1)

6) The number of line(s) of symmetry of the rhombus = ... (1 or 2 or 3 or 4)

7) 9870 ÷ 100 = ... (98.7 or 9.87 or 987 or 0.987)

8) 3 tons ....300 kg (> or < or = or otherwise)

9) ....+ 0.4 =1 (4 or 6 or 0.6 or 0.4)

10) A square of side length 5 cm is congruent to another square whose side length = ... cm (30 or 25 or 20 or 5)

11) 0.6 + 0.27 = ... (0.87 or 0.33 or 6.27 or 27.6)

12) The diagonal of the rectangle divides it into two .... triangles.
(congruent or different or isosceles or parallel)

13) A box contains 5 identical balls, 2 of them are blue and 3 are red, then the probability of selecting a red ball = ... ($\frac{2}{5}$ or $\frac{3}{5}$ or 1 or $\frac{1}{2}$)

14) 53.5 ≃ .... (to the nearest unit) (53 or 54 or 53.6 or 50)

15) $5 = \frac{......}{2}$ (10 or 20 or 50 or 1)

16) The probability of getting a tail when tossing a coin once = ...
($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{5}$ or $\frac{1}{6}$)

2 Complete the following:

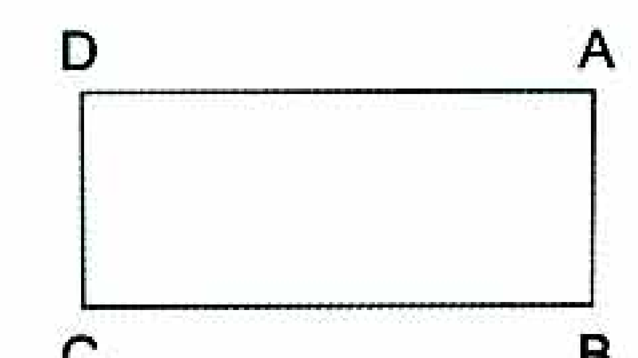
17) $\frac{1}{8} + \frac{2}{8} + \frac{4}{8}$ = ...

18) The number of line(s) of symmetry of equilateral triangle = ...

19) 6385 – 2147 = ... ≃ .... (to the nearest 100)

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20) 2 litres = ... mL

21) 7 + 0.4 + 0.03 = ...

22) The probability that the sun rises from the east = ...

3 *Answer the each of the following:*

23) **In the opposite figure:**

D A

C B

1) The name of figure ABCD is ....

2) The number of its lines of symmetry =................

24) **Arrange the following numbers in ascending order:** 17.5 , 16.15 , 17.25 , 16.2

The ascending order is .... , ... , ... and ....

25) Ashraf has 35 pounds. He bought a ball for 27.5 pounds.

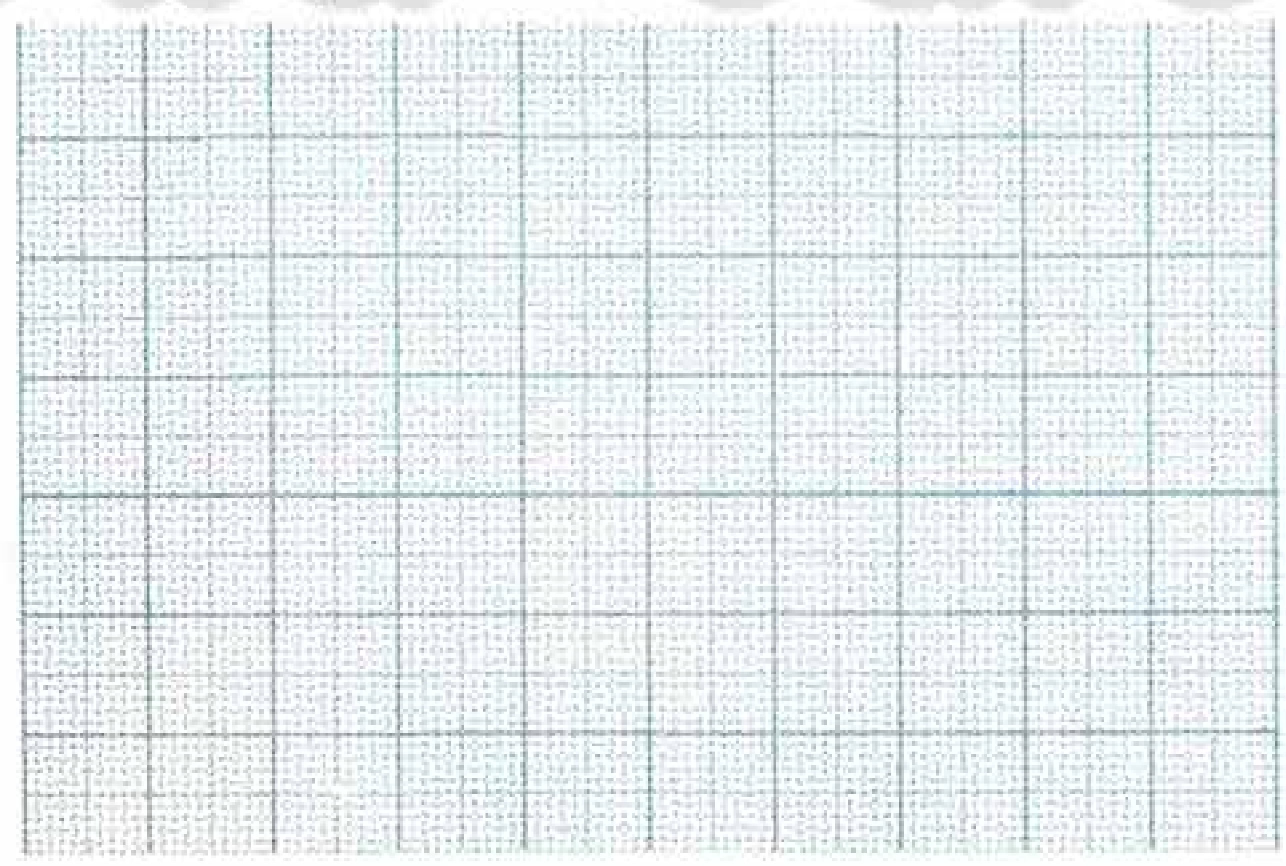
How much money was left with him?

The remainder = ... = ... pounds.

26) **The table below shows the production of handmade carpets that were exhibited by a group of producers:**

Production	First	Second	Third	Fourth
No. of producers	15	20	30	10

Represent these data by using a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



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Model Tests from the School Book

Model 1

1. Choose the correct answer from that between the brackets:

1) The value of the digit 7 in the number 0.375 is .... (0.07 or 0.7 or 7 or 70)

2) The probability of the certain event = ... (0 or 0.5 or 1 or 2)

3) $\frac{17}{5}$ = ... ($2\frac{3}{5}$ or $2\frac{4}{5}$ or $3\frac{1}{5}$ or $3\frac{2}{5}$)

4) The diagonal in the rectangle divides it into two .... triangles.

(congruent or scalene or isosceles or equilateral)

5) The number included between 0.64 , 0.65 is .... (0.655 or 0.645 or 0.635 or 0.625)

6) $\frac{7}{20}$ .... $\frac{17}{20}$ (> or = or < or ≃)

7) The number of the symmetrical lines of the square = ... (0 or 2 or 3 or 4)

8) When tossing a die once the probability of the appearance of an even number = ...

($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

9) 3.5 ton = ... kg (35 or 350 or 3500 or 35000)

10) 6457 ≃ .... to nearest hundred (640 or 6400 or 6500 or 645700)

11) From methods of collecting data is ....

(congruency or equality or noticing or parallelism)

12) $3\frac{5}{100}$ = ... (3.05 or 3.50 or 5.3 or 5.30)

13) 3279 ÷ 100 = ... (0.3279 or 3.279 or 32.79 or 327900)

14) The number of the lines of symmetry of the equilateral triangle = ... (3 or 2 or 1 or 0)

2. Complete the missing using a suitable answer:

15) $\frac{4}{5} + \frac{1}{5}$ = ...

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16) $5\frac{1}{3} = \frac{.....}{3}$

17) 7642 ≃ .... (to the nearest thousands)

18) On tossing a regular coin once the probability of the appearance of the tail = ...

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19) 48 hours = ... days

20) $\frac{3}{10} + 0.8 =$ ....

3. Find the result:

21) 1 – 0.6 = ...

22) 52.46 – 2.731 = ... ≃ .... (to the nearest unit)

23) $\frac{3}{5} + \frac{3}{4} =$ ....

24) $\frac{7}{10} + 0.8 =$ ....

25) 42819 ÷ 1000 = ... ≃ .... (to the nearest ten)

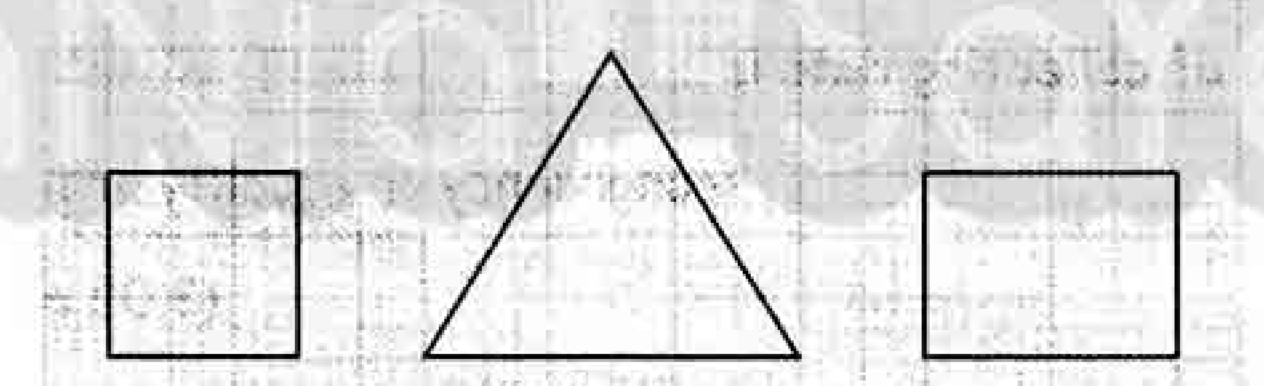
26) Arrange the following quantities desendingly:

$8\frac{1}{4}$ liters , 9000 milliliters , 5 liters , 6500 milliliters

27) Omnia bought a group of toys for 37.75 pounds and a ball for 27.58 pounds. If she had a banknote of 100 pounds. What is the remainder with her?

28) A box contains five identical balls, 2 are blue and 3 are red. If one ball is drawn blindly then what is the probability that the drawn ball is red?

29) Draw the lines of symmetry of each of the following shapes:



30) The following table shows the number of pupils participating in school activities.

Activities	Social	Cultural	Sport	Art
No. of pupils	30	20	70	40

Represent the data by the bar line graph.

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Model 2

1. Choose the correct answer from that between the brackets:

1) $\frac{1}{3} + \frac{2}{3} =$ .... ($\frac{1}{3}$ or $\frac{2}{3}$ or $\frac{3}{6}$ or 1)

2) 8731 ≃ .... to the nearest thousand (800 or 8000 or 900 or 9000)

3) The number of lines of symmetry of the square = ... (2 or 3 or 4 or 6)

4) $\frac{4}{10} + 0.6 =$ .... (4.6 or 6.4 or 1 or 0.1)

5) 3 days = ... hours (24 or 48 or 72 or 96)

6) The value of the digit 8 in the number 0.486 is .... (8 or 0.8 or 0.08 or 80)

7) The decimal fraction which is included between 0.37 , 0.38 is ....

(0.385 or 0.375 or 0.347 or 0.357)

8) The probability of appearing a head as throwing a metallic coin once = ...

(0 or $\frac{1}{2}$ or 1 or 2)

9) 96.43 .... $9\frac{648}{1000}$ (> or < or = or otherwise)

10) The isosceles trapezium has .... line(s) of symmetry. (0 or 1 or 2 or 3)

11) A square of side length 5 cm can be congruent with ....

(a rectangle of dimensions 7 and 5 cm or an equilateral triangle of side length 5 cm or a square of side length 5 cm or a rhombus of side length 5 cm)

12) 567.47 ≃ .... to the nearest tenth (567.4 or 567.7 or 567.5 or 567.3)

13) $\frac{15}{25} =$ .... ($\frac{1}{3}$ or $\frac{2}{5}$ or $\frac{3}{5}$ or $\frac{5}{3}$)

14) 7 + 0.3 + ... + 0.006 = 7.356 (5 or 0.5 or 0.05 or 0.005)

2. Complete the following:

15) $\frac{4}{8} - \frac{1}{4} =$ ....

16) 3.5 ton = ... kg

17) The probability that the sun rises from the east = ...

18) $4\frac{7}{50} =$ .... (in decimal form)

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19) Seven units and five thousandth = ...

20) Two rectangles are congruent if ....

3. Find the result of the following:

21) Arrange the following numbers ascendingly:

5.8 , 5.08 , 58 , 8.5 , 8.05

The order is .... , ... , ... , and ....

22) $\frac{1}{6} + \frac{2}{3}$ = ...

23) $\frac{48}{24} = \frac{....}{4}$ = ...

24) 8500 mL = ... L .

25) 96.80 – 62.31 = ... ≃ .... (to the nearest tenth)

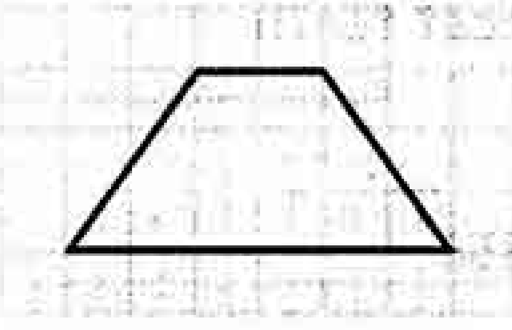
26) 46235 ÷ 1000 = ...

27) A box contains 10 balls, all equal in size, 3 balls are blue and the rest are green. If a ball is drawn randomly then calculate the probability that the drawn ball is green.

The probability that the ball drawn is green = ...

28) If the price of one kilogram of meat is 100 pounds and a family consumes one kilogram and half weekly then calculate how much money this family spends to buy what it needs in 5 weeks.

29) Draw the line(s) of symmetry of each of the following figure:



30) The table below represents the number of pupils in the first four levels in a primary school.

Levels	First	Second	Third	Fourth
No. of pupils	60	80	100	70

Represent the data by the bar line graph.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

Model 3

1. Choose the correct answer from that between the brackets:

1) Six thousandth and four hundredth = ... (0.46 or 0.046 or 0.64 or 0.0064)

2) $\frac{1}{2}$ liter = ... cm^3 (5 or 50 or 500 or 5000)

3) 4.2 .... 4.20 (> or < or = or otherwise)

4) 257146 ≃ 257100 to the nearest .... (10000 or 1000 or 100 or 10)

5) The number of lines of symmetry of the opposite shape = ... (1 or 2 or 3 or 4)

6) $9\frac{7}{10}$ = ... (9.07 or 9.7 or 9.007 or 7.09)

7) The probability of the impossible event = ... (0 or $\frac{1}{2}$ or 1 or 2)

8) The value of the digit 4 in the number 0.241 is .... (0.04 or 0.4 or 4 or 40)

9) The number of lines of symmetry of the isosceles triangle = ... (1 or 2 or 3 or 4)

10) $7\frac{1}{3}$ = ... ($\frac{3}{22}$ or $\frac{8}{3}$ or $\frac{10}{3}$ or $\frac{22}{3}$)

11) The probability of appearing an odd number on the upper face of a die = ... ($\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

12) The number whose value is included between 0.730 and 0.74 is .... (0.745 or 0.755 or 0.735 or 0.725)

13) $657\frac{4}{5}$ ≃ .... to nearest unit (657 or 658 or 655 or 659)

14) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 or 7.934 or 7.439 or 74.39)

2. Complete:

15) Two rectangles are congruent if ....

16) $\frac{4}{10}$ + 0.6 = ...

17) The probability of appearing a head as throwing a metallic coin once = ...

18) $\frac{3}{4}$ hour = ... minutes.

19) $\frac{5}{6} - \frac{1}{3}$ = ...

20) $4\frac{3}{100}$ = ... ≃ .... to the nearest tenth.

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3. Find the result:

21) 36.48 – 18.37 = ... ≃ .... to the nearest tenth

22) $\frac{1}{4} + \frac{3}{4}$ = ... = ...

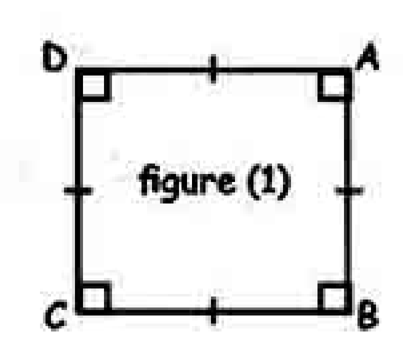
23) 74852 ÷ 1000 = ... ≃ .... to the nearest tenth

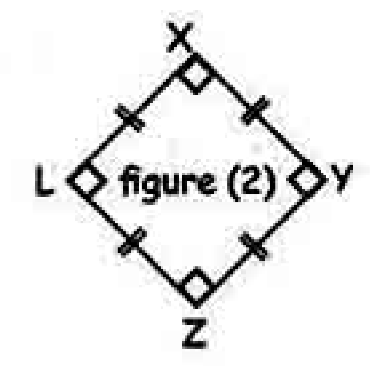
24) 5 kg an 375 gm = ... gm.

25) Arrange descendingly: $\frac{3}{5}$, $\frac{2}{3}$, $\frac{7}{15}$, 1

26) In the two opposite figures:

Is figure (1) congruent with figure (2) Why?

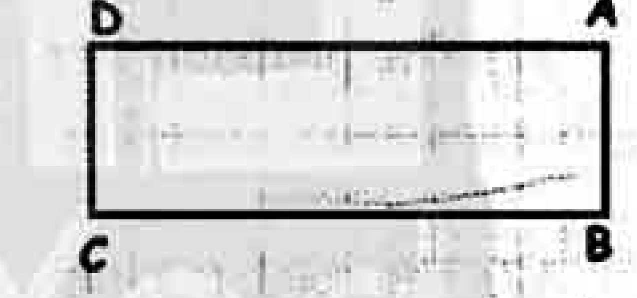




27) Mazen has 35 pounds. He bought a ball for 12.75 pounds and a book for 17.25 pounds. What is the remainder with him?

28) A box contains 8 identical balls, 4 of them are red, 2 are green and the rest are yellow. If one ball is drawn blindly then find the probability that the drawn ball is yellow.

29) From the opposite figure: answer the following:



a) What is the name of the figure ABCD?

b) How many lines of symmetry of the figure?

c) Draw the line which divides it into two congruent parts.

30) The following table shows the number of travellers in the first four carriages of a train.

Carriages	First	Second	Third	Fourth
Number of travellers	60	55	70	65

Represent these data by a bar line graph.

أكتب ذاكرولي في البحث وانضم لجروبات ذاكرولي
من رياض الاطفال للصف الثالث الاعدادي

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Al-Adwaa Model Tests

Model 1

1. Choose the correct answer:

1) 48 hours .... 3 days. (> or < or = or otherwise)

2) 750 gm .... $\frac{1}{2}$ kg. (> or < or = or otherwise)

3) 1.08 .... 1.8 (> or < or = or otherwise)

4) 5000 gm .... 5 tons. (> or < or = or otherwise)

5) 4.7 + 2.05 = ... (5.75 or 7.2 or 6.75 or 8.25)

6) The probability of an impossible event = ... (0 or 1 or 2 or 3)

7) 42.763 ≃ .... to the nearest tenth. (40 or 42.8 or 42.863 or 42)

8) The isosceles triangle has .... line(s) of symmetry. (1 or 2 or 3 or 4)

9) 568 ÷ 100 ≃ .... (to the nearest unit). (6 or 5 or 5.7 or 5.6)

10) The probability of the impossible event = ... (0 or 1 or 2 or $\frac{1}{2}$)

11) The isosceles trapezium has .... line(s) of symmetry. (0 or 1 or 2 or 3)

12) $4\frac{7}{10}$ + 3.07 = ... (7.14 or 7.4 or 7.77 or 7.14)

---

2. Complete each of the following:

1) 4 289 ÷ 100 = ... ≃ .... (to the nearest unit)

2) 2 143 + 43 215 = ... ≃ .... (to the nearest 1000)

3) 12.7 + 10.07 = ... ≃ .... (to the nearest 0.1)

4) 987.8 − 391.26 = ... ≃ .... (to the nearest 100)

5) The square has .... lines of symmetry.

6) 15 tons = ... kg.

7) 249 ≃ .... (to the nearest hundred).

8) The probability of an impossible event = ...

9) If Δ ABC ≡ Δ XYZ, then AB − XY = ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

10) 5 tons = ... kilograms.

11) 1 hour and half = ... minutes.

12) $456 \div 100$ = ... ≃ .... (to the nearest unit)

3. a) Hisham has 45 pounds. He bought a book for 9.75 pounds and a calculator set for 12.5 pounds. What is the remainder with Hisham?

b) Arrange the following numbers in ascending order:

0.35 , 5.4 , $3\frac{1}{2}$, 0.53

c) The following table shows the number of studying hours of each of Walid and Amira in some days of the week.

Day / Name	Sat.	Sun.	Mon.	Tues.
Walid	4	4	5	3
Amira	3	4	3	5

Represent these data using double bars.

Model 2

1. Choose the correct answer:

1) 19.7 .... 1.97 (> or < or = or otherwise)

2) $375 \div 100$ .... $3750 \div 1000$ (> or < or = or otherwise)

3) 0.5 day .... 14 hours (> or < or = or otherwise)

4) 56.25 .... 56 + 0.5 + 0.02 (> or < or = or otherwise)

5) 2 kg .... 700 gm. (> or < or = or otherwise)

6) The number of lines of symmetry of a rhombus .... 3. (> or < or = or otherwise)

7) 7 liters .... 7680 milliliters. (> or < or = or otherwise)

8) 15 hours .... $\frac{1}{2}$ day. (> or < or = or otherwise)

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9) $568 \div 100 \simeq$ .... (to the nearest unit). (6 or 5 or 5.7 or 5.6)

10) The probability of the impossible event = ... (0 or 1 or 2 or $\frac{1}{2}$)

11) The isosceles triangle has .... line(s) of symmetry. (0 or 1 or 2 or 3)

12) $4\frac{7}{10} + 3.07 =$ .... (7.14 or 7.4 or 7.77 or 7.14)

2. Complete:

1) $24.385 + 15.7 =$ .... $\simeq$ .... (to the nearest unit).
2) $98.73 - 21.8 =$ .... $\simeq$ .... (to the nearest ten).
3) $645 \div 100 =$ ....
4) If $\Delta ABC \equiv \Delta XYZ$, then $\overline{AB} \equiv$ ....
5) 5 tons = ... kilograms.
6) 1 hour and half = ... minutes.
7) $456 \div 100 =$ .... $\simeq$ .... (to the nearest unit)
8) 5 liters = ... cm^3.
9) $4.7 = 0.7 +$ ....
10) $98.451 \simeq$ .... (to the nearest tenth).
11) The two polygons that are congruent, their corresponding sides are .... and their corresponding angles are ....

3. a) A box contains 3 blue balls, 2 red balls and 2 green balls, and one ball is chosen at random from the box.

Find the probability that the chosen ball is:

(1) red. (2) blue or green.

(3) black. (4) not blue.

b) The following table shows the number of pupils in each grade:

Grade	First	Second	Third	Fourth
Number of pupils	30	50	60	20

Represent these data using a histogram.

c) A box contains 5 red balls, 3 blue balls and 7 green balls. If a ball is drawn randomly, what is the probability that the drawn ball is?

(1) blue (2) not red

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Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

Model 3

1. Choose the correct answer from those between brackets:

1) 3 weeks .... 28 days. (> or < or = or otherwise)

2) 1 kg .... 2000 gm. (> or < or = or otherwise)

3) 5.08 .... 5.8 (> or < or = or otherwise)

4) The number of lines of the symmetry of a square .... the number of lines of the symmetry of a rectangle. (> or < or = or otherwise)

5) 3 tons = ... kg. (300 or 3000 or 30000 or 30)

6) The probability of an impossible event = ... (0 or 1 or $\frac{1}{2}$ or $\frac{1}{6}$)

7) 7932 ≃ 7900 to the nearest .... (ten or hundred or thousand or unit)

8) $\frac{7}{10}$ liter .... 125 mL. (> or < or = or otherwise)

9) 5 tons = ... kg. (0.5 or 50 or 500 or 5000)

10) The probability of an impossible event equals .... (1 or 0.5 or 0.25 or 0)

11) The isosceles trapezium has .... line(s) of symmetry. (zero or 1 or 2 or 4)

12) 0.23 + ... = 1 (0.70 or 0.77 or 0.777 or 77)

---

2. Complete the following:

1) 42.59 – 21.575 = ... ≃ .... (to the nearest ten)

2) 38.9 + 16.595 = ... ≃ .... (to the nearest tenth)

3) 568 ÷ 100 = ... ≃ .... (to the nearest unit)

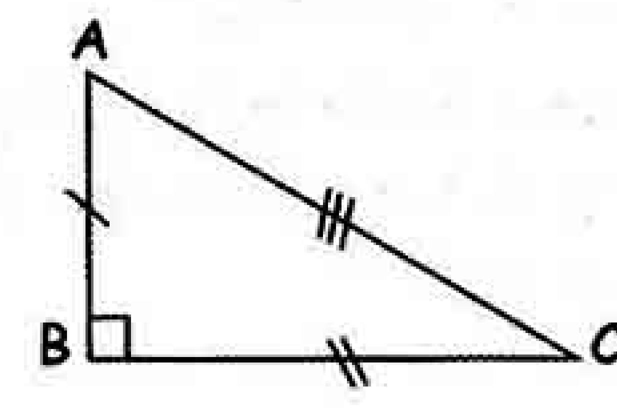
4) The rhombus has .... lines of symmetry but the square has .... lines of symmetry.

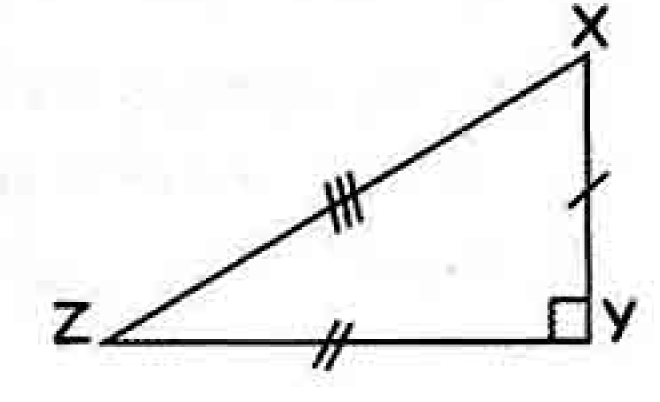
In the following figures if Δ ABC ≡ Δ XYZ, complete:

5) $\overline{XY}$ ≡ ....

6) ∠ C ≡ ∠ ....

7) m (∠ X) = ...






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8) $\frac{1}{3}$ day = ... hours.

9) 153.67 + 18.061 = ... ≃ .... (to the nearest tenth).

10) 95.9 – 13.25 = ... ≃ .... (to the nearest unit).

11) 72 hours = ... days.

12) AB, ABB, ABBB, ..., ABB, ABBB. (in the same pattern).

---

3. a) Emad has 98.75 pounds and he bought a shirt for 75.5 pounds.

How much money was left with him?

b) The following table represents the number of pupils in different grades:

Grade	First	Second	Third	Fourth
Number of pupils	7	12	9	6

Represent these data using a histogram.

c) A box contains 5 blue balls, 2 red balls and 3 green balls. If a ball is drawn blindly, then complete:

(1) The probability that the drawn ball is red = ...

(2) The probability that the drawn ball is green = ...

b) **Complete:** The number 721 approximated to the nearest 10 is ....

لا تنس الاشتراك في
قنوات ذاكرولي
على تطبيق التليجرام

تابع جديد ذاكرولي على
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تويتر
واتس اب
تليجرام

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

Some School Examinations from Different Governorates 2018

1 Cairo Governorate - Mathematics Supervision (A)

1. Choose the correct answer:

1) 53.4 = ... ($\frac{534}{10}$, $34\frac{4}{10}$, $5\frac{34}{100}$, $5\frac{34}{1000}$)

2) The rhombus has .... lines of symmetry. (0 , 1 , 2 , 4)

3) 21 days and 3 weeks = ... weeks. (3 , 4 , 5 , 6)

4) 45.26 ≃ 45.3 to the nearest .... (tenth , unit , ten , hundred)

5) 25056 ≃ 25100 to the nearest .... (unit , ten , hundred , thousand)

6) The probability of appearing of a head in metallic coin = ...(0, 0.5 , 1 , $\frac{1}{4}$)

7) 8 + 0.7 + 0.04 + 0.003 = ... (8.347, 8.734 , 7.843 , 8.743)

---

2. Choose the correct answer:

8) 8079 ≃ 8000 to the nearest .... (unit , ten , hundred , thousand)

9) The parallelogram has .... lines of symmetry. (0 , 1 , 2 , 3)

10) The isosceles trapezium has .... line(s) of symmetry. (1 , 2 , 3 , 4)

11) 86.58 ≃ .... to the nearest unit. (86 , 86.5 , 86.6 , 87)

12) 7.3 + 4.06 = ... (11.36 , 13.3 , 21.36 , 21.9)

13) A box contains 5 red balls, 5 white balls. If a ball drawn blindly, what is the probability that the drawn ball is white? (0 , $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)

14) The probability of appearing an even numbers as a throwing a fair die once is ....
($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$)

---

3. Complete each of the following:

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15) 78956 ÷ 100 = ...

16) The probability of appearing a prime number when throwing a fair die once = ...

17) Two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

18) 4 liters = ... milliliters.

19) 9452 ÷ 1000 = ...

20) 11.9 + 1.1 – 2 = ...

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الصف الرابع الابتدائى

4. First: Find the result then approximate:

21) 23.87 + 45.97 = ... ≃ .... to the nearest tenth.

22) 7894 + 5675 = ... ≃ .... to the nearest thousands.

23) 66.7 − 11.25 = ... ≃ .... to the nearest unit.

Second:

24) Complete in the same pattern: 6.95 , 6.5 , 6.05 , ... , ... , 4.7

25) Hoda had L.E.60, she bought a dress for LE.38.25 and a bag for LE 8.2. What is the remainder with her?

---

5. First:

26) In the opposite figure:

ABCD is a rectangle. Draw the lines of symmetry of the figure ABCD.



27) In a box there are 5 red balls, 3 blue balls and 7 green balls equal in size, a ball is drawn randomly, then the probability that the drawn ball is:

a) Blue = ...

b) Not red = ...

28) Complete using the suitable sign of (< , = , >):

a) 120 seconds ☐ 3 minutes

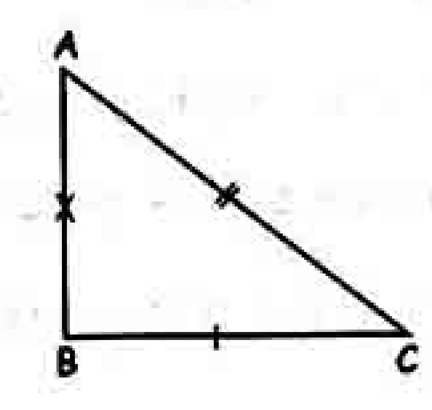
b) 2 years ☐ 20 months

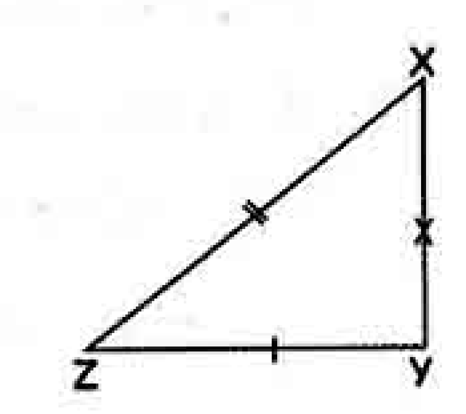
Second:

29) In the following figure, if $\triangle ABC \equiv \triangle XYZ$, then complete:

1) $\overline{CB}$ ≡ ....

2) ∠X ≡ ....





هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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الصف الرابع الابتدائى

30) The following table shows the number of studying hours of each of Ali and Fatma in some days of the week.

Student \ Day	Saturday	Sunday	Monday	Tuesday
Ali	4	6	2	4
Fatma	6	8	6	6

Represent these data by double bars graph.

2 Cairo Governorate - Mathematics Supervision (B)

1. Choose the correct answer:

1) 35.4 = ... ($\frac{354}{10}$, $34\frac{5}{10}$, $3\frac{54}{100}$, $3\frac{54}{1000}$)

2) The parallelogram has .... lines of symmetry. (0 , 1 , 2 , 4)

3) 14 days and 4 weeks = ... weeks. (3 , 4 , 5 , 6)

4) 35.26 ≃ 35.3 to the nearest .... (tenth , unit , ten , hundred)

5) 251056 ≃ 251100 to the nearest .... (unit , ten , hundred , thousand)

6) The probability of appearing of a tail when throwing a metallic coin = ... (0 , 0.5 , 1 , $\frac{1}{4}$)

7) 7 + 0.4 + 0.03 + 0.009 = ... (7.349 , 7.439 , 7.943 , 9.743)

---

2. Choose the correct answer:

8) 9079 ≃ 9000 to the nearest .... (unit , ten , hundred , thousand)

9) The rectangle has .... line(s) of symmetry. (1 , 2 , 3 , 4)

10) The isosceles trapezium has .... line(s) of symmetry. (1 , 2 , 3 , 4)

11) 96.58 ≃ .... to the nearest unit. (96 , 96.5 , 96.6 , 97)

12) 17.3 + 4.06 = ... (11.36 , 13.3 , 21.36 , 21.9)

13) A box contains 2 red balls, 2 white balls. If a ball drawn blindly then the probability that the drawn ball is green equals .... (0 , $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)

14) The probability of appearing an odd number when throwing a fair die once is .... ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

3. Complete each of the following:

15) 23456 ÷ 100 = ...

16) The probability of appearing a prime number when throwing a fair die once = ...

17) Two polygons are congruent if their corresponding sides are .... in length and their corresponding .... are equal in measure.

18) 2 liters = ... milliliters.

19) 2145 ÷ 1000 = ...

20) 6.9 + 2.1 – 2 = ...

---

4. First:

Find the result, then approximate:

21) 29.87 + 46.97 = ... ≃ .... to the nearest tenth.

22) 6894 + 4675 = ... ≃ .... to the nearest thousand.

23) 959 – 13.25 = ... ≃ .... to the nearest unit.

Second:

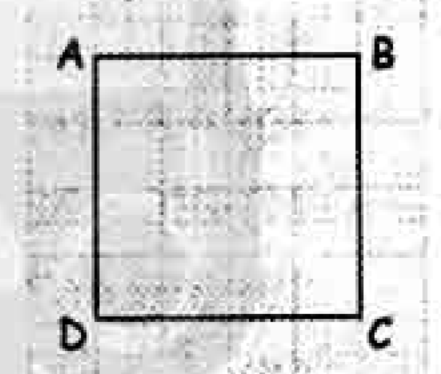
24) Complete in the same pattern: 7.95 , 7.5 , 7.05 , ... , ... , 5.7.

25) A train covers a distance 9567 meters in the 1^{st} hour and covers 3971 meters in the 2^{nd} hour. Find the difference between the distances covered by the train in the two hours to the nearest kilometer.

---

5. 26) First: In the opposite figure: ABCD is a square.

Draw the lines of symmetry of the figure ABCD.



27) In a box there are 5 red balls, 3 blue balls and 7 green balls equal in size, a ball is drawn randomly. **Find the probability that the drawn ball is:**

a) Blue = ...

b) Yellow = ...

28) Complete using the suitable sign of (< , = , >)

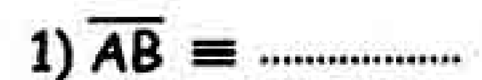
a) 1 hour ☐ 50 minutes

b) 2500 milliliters ☐ 2050 milliliters

Second:

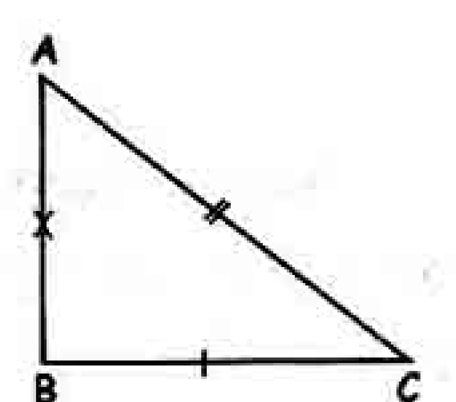
29) In the opposite figure, if △ABC ≡ △XYZ

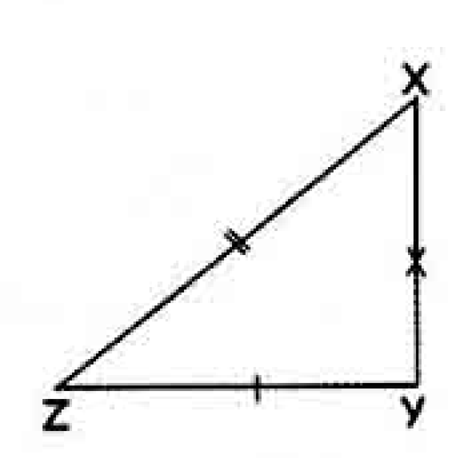
Then complete:



1) $\overline{AB}$ ≡ ....

2) ∠Z ≡ ....





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الصف الرابع الابتدائى

30) The following table represents the marks of each of Khaled & Basma in 4 tests.

Subject / Student	Arabic	English	Maths	Science
Kahled	10	15	20	15
Basma	15	20	25	20

Represent these data by double bars graph.

3 Cairo Governorate - El Khalifa & Mokattam Educational Directorate

1. Choose the correct answer:

1) 6596 ≃ 7000 to the nearest .... (unit , ten , thousand , hundred)
2) 467.91 ÷ 100 = ... (46791 , 46.791 , 4.6791 , 0.46791)
3) 2 weeks = ... days. (14 , 36 , 48 , 120)
4) 84.265 ≃ .... to the nearest tenths. (84.3 , 80 , 84.27 , 84.2)
5) 3 tons = ... kg. (30 , 300 , 3000 , 0.003)
6) The probability of an impossible event = ... (1 , 2 , 0 , 0.1)
7) Rectangle has .... line(s) of symmetry. (4 , 2 , 1 , 0)
8) The probability of appearance of a head when tossing a coin = ... $(1 , 2 , \frac{1}{2} , 0)$
9) The .... triangle has 3 lines of symmetry. (isosceles , scalene , equilateral, otherwise)
10) 4.8 liters = ... dm^3. (4800 , 4.8 , 480 , 48000)
11) 210 , 214 , 218 this pattern is increased by .... (2 , 3 , 4 , 14)
12) 319.467 ≃ .... to the nearest unit. (320 , 319.5 , 319 , 319.468)
13) $\frac{1}{3}$ hour = ... minutes. (20 , 30 , 15 , 180)
14) 73.59 – 32.537 = ... (41.067 , 41.053 , 51.063 , 106.127)

2. Complete:

15) $\frac{1}{2}$ liter ☐ 450 mL. (< , > , =)

16) The probability of a certain event = ...

17) $\frac{9}{10}$ + 0.7 = ... 18) 123.8 gm = ... kg

19) 3962 ≃ .... (to the nearest hundred)

20) The probability of appearing of an even number on the upper face when throwing a fair die once = ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
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3. Answer the following:

21) Two polygons are congruent if their corresponding sides are .... and their corresponding .... are equal in measure.

22) Write four whole numbers which if approximated to the nearest hundred the result will be 600?

23) If $\triangle ABC \equiv \triangle XYZ$, then complete:

a) $\overline{AB} \equiv$ .... b) $m(\angle Z) \equiv$ ....

24) A box contains 5 red balls and 6 white balls. If one ball is drawn blindly, then the probability that the drawn ball: a) is red = ... b) is black = ...

25) The diagonal in the rectangle divides it into two congruent .... but it's not a line of ....

26) Dalia bought a bag for L.E 36.8 and a pair of shoes for L.E 52.4. Find how much money she paid.

27) The number of lines of symmetry of square ☐ number of lines of symmetry of parallelogram (< , > , =)

28) AB , ABB , ABBB , AB , ... , ... (in the same pattern)

29) $\frac{1}{4}$ day = ... hours.

30) The following table shows the number of participants in the school activities.

Activity	Music	Art	Basketball	Handball
Number of pupils	7	5	10	8

Represent these data by a bar line (histogram) graph.

4 Cairo Governorate - East Nasr City Directorate

1. Choose the correct answer:

1) The value of 9 in 18.396 is .... (9 , 90 , 0.09 , 0.07)

2) 7339 ≃ 7300 approximated to the nearest ....(ten , hundred , thousand , unit)

3) The decimal number of $\frac{317}{100}$ is .... (3.17 , 31.7 , 0.317 , 31.700)

4) 831.25 ≃ .... approximated to the nearest tenth. (831.5 , 832 , 831 , 831.3)

5) 3.1 .... 4.3 (< , > , = , nothing)

6) 250 ÷ 100 = ... (25 , 2.5 , 0.25 , 250)

7) 7296 approximated to the nearest 1000 ≃ .... (7000 , 6000 , 5200 , 5297)

8) If ▭ ABCD ≡ ▭ XYZL, then m (∠ B) = m (∠ ......) = ... (Y , Z , X , L)

9) The equilateral triangle has .... lines of symmetry. (1 , 2 , 3 , 4)

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10) $\frac{1}{2}$ ton = ... kg. (1000 , 500 , 10 , 50)

11) 5 , 10 , 15 , ... (in the same pattern) (25 , 20 , 35 , 34)

12) The probability of getting a sure event is .... (0 , 0.5 , 1 , 2)

13) The probability of getting a head when tossing a coin once = ... (1 , $\frac{1}{2}$, zero , 2)

14) From methods of collecting data is .... (congruence , symmetric , noticing , approximation)

2. Complete:

15) 36.9 $\simeq$ 40 approximated to the nearest ....

16) 4568 $\simeq$ .... to the nearest ten.

17) 4257 ÷ 10 = ...

18) 3 liters = ... cm^3.

19) The two squares are congruent if the side length of first equals ....

20) It is .... to rain gold.

3. Find the result:

21) 25.3 + 12.6 = ...

22) 18.7 − 11.4 = ...

23) 78 ÷ 10 = ...

24) 653 $\frac{4}{5}$ $\simeq$ .... approximated to the nearest unit.

25) 99994 ÷ 1000 = ...

26) 100 , 90 , 80 , ... , ... in the same pattern.

27) The opposite figure is a rectangle.
Draw its all lines of symmetry.

A B D C

28) A man wants to buy a golden ring of weight 10 grams, if the price of each gram is L.E 500, how much will he pay?

What the man will pay = ...

29) A box contains 5 blue balls, 3 red balls, 4 green balls with the same size, if one ball is chosen randomly. Find the probability that:

(1) The ball is red = ...

(2) The ball is green = ...

30) Represent these data by a bar line graph.

Activities	Sports	Art	Culture
Number of children	40	50	60

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5 Cairo Governorate - Mathematics Supervision (C)

1. Choose the correct answer:

1) 65.4 = ... ($\frac{654}{10}$, $54\frac{6}{10}$, $6\frac{54}{100}$, $6\frac{54}{1000}$)

2) The parallelogram has .... lines of symmetry. (0 , 1 , 2 , 4)

3) 7 days and 3 weeks = ... weeks. (3 , 4 , 5 , 6)

4) 75.26 ≃ 75.3 to the nearest .... (tenth , unit , ten , hundred)

5) 51056 ≃ 51100 to the nearest .... (unit , ten , hundred , thousand)

6) When throwing a metallic coin once the probability of appearing a head = ... (0 , 0.5 , 1 , $\frac{1}{4}$)

7) 8 + 0.8 + 0.03 + 0.009 = ... (8.938 , 8.839 , 8.398 , 8.983)

2. Choose the correct answer:

8) 8079 ≃ 8000 to the nearest .... (unit , ten , hundred , thousand)

9) The equilateral triangle has .... line(s) of symmetry. (1 , 2 , 3 , 4)

10) The isosceles trapezium has .... line(s) of symmetry. (1 , 2 , 3 , 4)

11) 54.58 ≃ .... to the nearest unit. (54 , 54.5 , 54.6 , 55)

12) 4.7 + 3.07 = ... (7.07 , 7.14 , 7.7 , 7.77)

13) A box contains 4 red balls, 4 white balls. If a ball drawn blindly, then the probability that the drawn ball is green equals .... (0 , $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)

14) The probability of appearing a prime numer when throwing a fair die once equals .... ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$)

3. Complete each of the following:

15) 2857 ÷ 100 = ...

16) The probability of appearing an even number as throwing a fair die once equals ....

17) Two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

18) 3 liters = ... milliliters.

19) 99875 ÷ 1000 = ...

20) 362.6 – 29.1 = ... ≃ .... to the nearest unit.

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

4. First: Find the result, then approximate:

21) 12.78 + 3.5 = ... ≃ .... to the nearest tenth.

22) 7891 + 6775 = ... ≃ .... to the nearest thousand.

23) 95.8 – 13.15 = ... ≃ .... to the nearest unit.

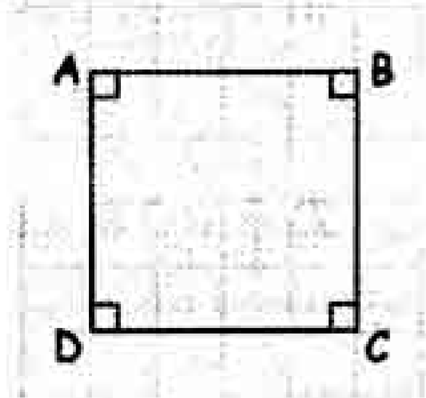
Second:

24) Complete in the same pattern: 6.95 , 6.5 , 6.05 , ... , ... , 4.7

25) Hossam has p.t. 425 and his sister Hend has p.t. 980.
Find the difference between what they have in pounds.

5. First:

26) In the opposite figure: ABCD is a square.
Draw the lines of symmetry of the figure ABCD.



27) In a box there are 3 red balls, 5 blue balls and 3 green balls equal in size. A ball is drawn randomly, find the probability that the drawn ball is:

a) Blue = ... b) Green = ...

28) Complete using the suitable sign of (< , = , >):

a) 2 liters ☐ 2145 milliliters



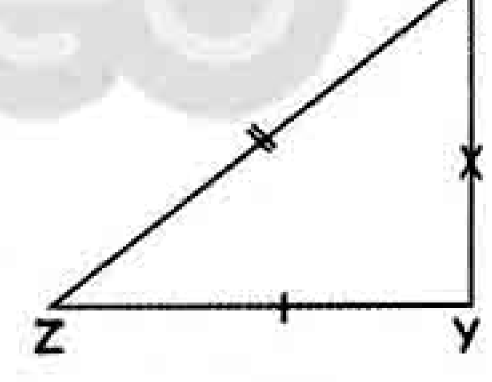
b) 48 hours ☐ 4 days

Second:

29) In the opposite figure, if △ABC ≡ △XYZ:
Then complete:

1) $\overline{BC}$ ≡ ....

2) ∠ Y ≡ ....



30) The table below shows the number of hours that Walid and Fouad spend to study their lessons in a week.

Day / Pupils	First	Second	Third	Fourth
Walid	6	6	8	6
Foad	8	4	8	8

Represent these data by double bars graph.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

6 Cairo Governorate - Heliopolis Educational Zone

1. Choose the correct answer:

1) 69.502 ≃ .... to the nearest unit. (69 , 70 , 69.5 , 70.5)

2) 0.7 + 1.3 = ... (1.10 , 0.83 , 1.9 , 2)

3) 423 ÷ .... = 4.23 (10 , 100 , 1000 , 1.11)

4) The weight of a shoulder-bag of books of a student is ....
(3 tons , 3 kg , 50 kg , 3 gm)

5) 7 – 0.7 = ... (7.7 , 7.3 , 6.3 , 0)

6) 2.5 tons .... 2250 kg. (< , > , = , otherwise)

7) $2\frac{3}{5}$ ≃ .... to the nearest unit. (2 , 3 , 2.6 , 2.3)

8) The number of the lines of symmetry of the scalene triangle is .... (0 , 1 , 3 , 3)

9) Half a day .... 12 hours. (< , > , = , otherwise)

10) The probability of getting an odd number on the upper face as throwing a fair die is .... ($\frac{1}{6}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{5}{6}$)

11) 35.26 ≃ 35.3 to the nearest .... (0.1 , 0.01 , 10 , unit)

12) Third hour = ... minutes. (15 , 20 , 30 , 40)

13) $\frac{1}{2}$ liter = ... milliliters. (0.5 , 200 , 250 , 500)

14) 9085 ≃ 9000 to the nearest .... (10 , 100 , 1000 , 10000)

---

2. Complete:

1) The probability of the certain event is ....

2) 76.45 ≃ .... to the nearest one decimal place.

3) 0.78 + ... = 1

4) 7500 milliliters = ... liters.

5) 13.2 , 13.4 , 13.6 , 13.8 , ... in the same pattern

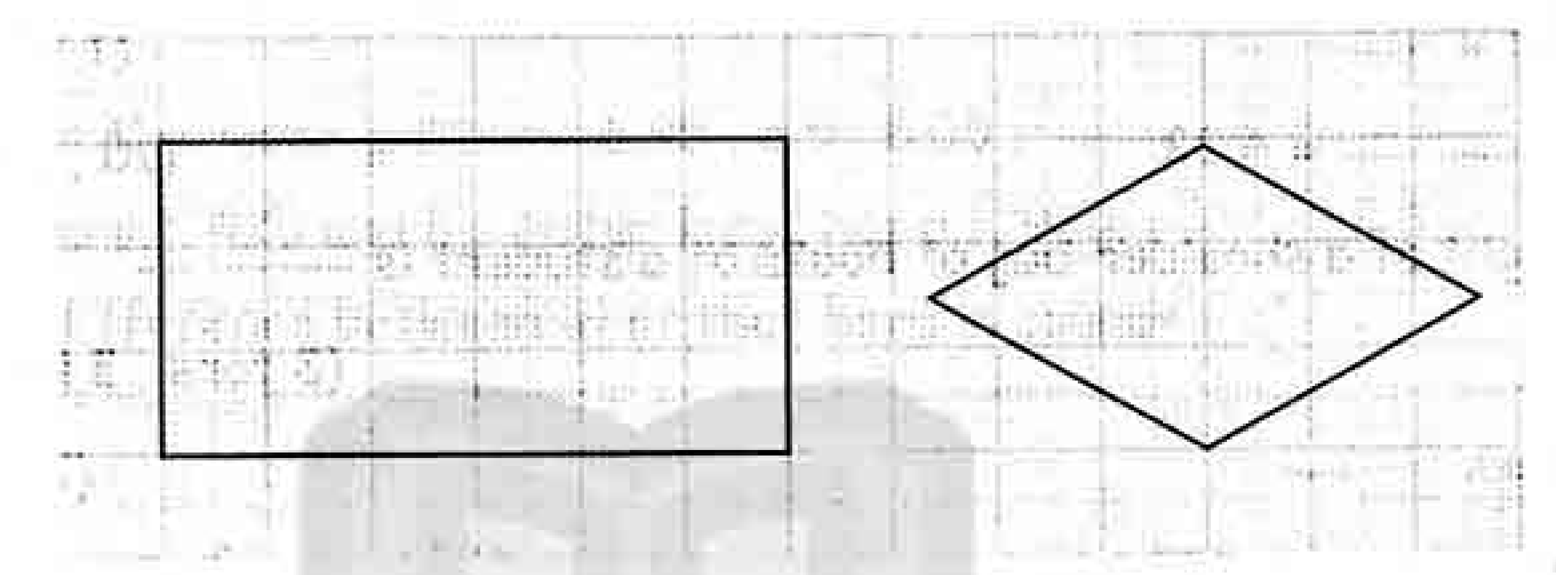
6) .... ÷ 100 = 2.02

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

3. **Answer the following questions:**

1) Find the result of: 3.078 + 7.23 approximated to the nearest tenth.

2) Draw the lines of symmetry in each:



4. A box contains ten balls, equal in size. 4 are red balls, and the rest are white. If a ball is drawn randomly.

Find: 1) The probability that the drawn ball is red ....

2) The probability that the drawn ball is white ....

5. A man had 92.5 pounds, he bought a shirt for 76.75 pounds. Calculate the remainder with him.

The remainder = ... = ... pounds.

6. The following table shows the number of studying hours of each of Aya and Sarah in two days.

Day / Name	Sat.	Sun.
Aya	3	5
Sarah	6	4

Represent these data by a double bars graph.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى





7 Giza Governorate - El Haram Directorate

1. Choose the correct answer:

1) 3 tons = ... kg. (30, 300 , 3000 , 30000)
2) 5467 ≃ .... (to the nearest hundred). (5470 , 5500 , 5000 , 5400)
3) The probability of the certain event = ... (0 , $\frac{1}{2}$, 1 , 2)
4) 3641 ÷ 1000 = ... (3.641 , 36.41 , 364.1 , 0.3641)
5) 3.76 ≃ .... (to the nearest tenths). (3.8 , 3.7 , 3.9 , 4)
6) If a coin is drawn once, the probability of the appearance a head is .... (0 , $\frac{1}{2}$, 1 , 2)
7) 13 – 2.65 = ... (11.65 , 15.65 , 10.53 , 10.35)
8) The number of lines of symmetry of a square = ... (0 , 1 , 2 , 4)
9) $\frac{1}{4}$ of a day = ... hours. (6 , 8 , 12 , 24)
10) 648 ≃ 650 (to the nearest ....) . (unit , 10 , 100 , tenth)
11) The shape △ is congruent to .... (○ , △ , ◺ , ▭)
12) 3 weeks ▭ 18 days (> , < , = , ≃)
13) 3 , 3.2 , 3.4 , ... (in the same pattern) . (3.5 , 3.6 , 4.5 , 7.7)
14) .... is one of the units of measuring length . (Kg , Liter , Meter , Hour)

2. Complete:

15) If: △ABC ≡ △XYZ, then AB = ...
16) The isosceles trapezium has .... line of symmetry.
17) The two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.
18) 5 liters = ... cubic centimeter.
19) 48 hours = ... days.
20) ⊟ , ◫ , ⊟ , ◫ , ... (in the same pattern)

3. Answer the following:

21) 5.23 + 10.6 = ... ≃ .... (to the nearest 10)
22) 19.45 – 8.9 = ... ≃ .... (to the nearest tenth)
23) 369 ÷ 100 = ... ≃ .... (to the nearest unit)
24) If △ABC ≡ △XYZ, then m (∠B) = m (∠.........)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

25) A box contains 5 red balls and 4 blue balls of the same size, then the probability of getting a red ball = ...

26) Draw the lines of symmetry of the following shape:

A B D C

27) The two squares are congruent if their side lengths are ....

28) Ali has 98.5 pounds. He bought a shirt for 75.75 pounds. Calculate the remainder with him.

The remainder = ...

29) 39 days ≃ .... weeks (to the nearest week)

30) Represent the data of the following table by histogram.

Activities	Sport	Art	Culture	Social
Number of pupils	60	40	20	30

8 Giza Governorate - North Giza Directorate

1. Choose the correct answer:

1) 2538 ÷ 1000 = ... (353.8 , 25.38 , 2.538 , 25380)

2) The probability of the sure event = ... (0 , 1 , 2 , 3)

3) $1\frac{1}{2}$ day = ... hours. (12 , 24 , 36 , 48)

4) 3893 ≃ 3890 to the nearest .... (10 , 100 , 1000 , 10000)

5) 52.7 ≃ .... to the nearest unit. (53 , 52 , 50 , 51)

6) The number of axes of symmetry of the rectangle = ... (0 , 1 , 2 , 3)

7) 50000 kg = ... tons. (5 , 50 , 500 , 5000)

8) $\frac{1}{2}$ litre = ... cm^3. (50 , 500 , 5000 , 1000)

9) 78.26 ≃ .... to the nearest tenth. (78 , 78.2 , 78.3 , 78.7)

10) 2 tons .... 200 kg. (> , = , <)

11) 0.3 + 0.8 = ... (0.11 , 1.1 , 0.38 , 3.8)

12) 5.2 + 0.8 = ... 6 (< , > , = , otherwise)

13) .... is one of the units of the measuring capacity. (cm , m , kg , litre)

14) 7258 ≃ .... to the nearest hundred. (7300 , 7200 , 7000 , 7260)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

2. Complete:

لا تنس الاشتراك في
قنوات ذاكرولي
على تطبيق التليجرام

15) 3.2 , 3.4 , 3.6 , ... , ...

16) 4218 $\simeq$ .... to the nearest ten.

17) The square has .... lines of symmetry.

18) $2\frac{1}{2}$ hours .... minutes.

19) 1852 $\simeq$ .... to the nearest thousand.

20) When throwing a fair coin once, the probability of getting a head = ...

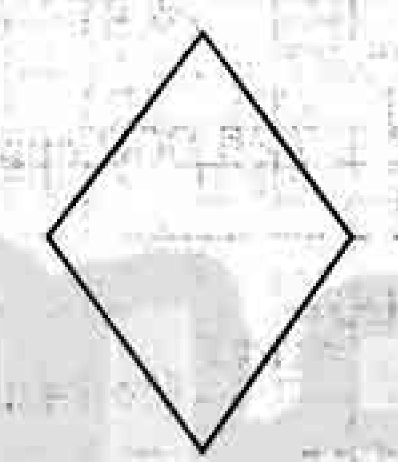


3. 21) Find: 134.8 + 427.9 = ...

22) Find: 724.83 − 51.25 = ...

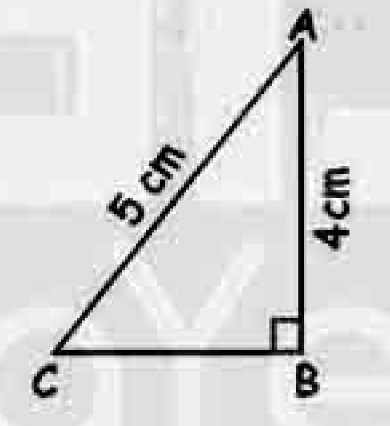
23) 5792 ÷ 100 = ...

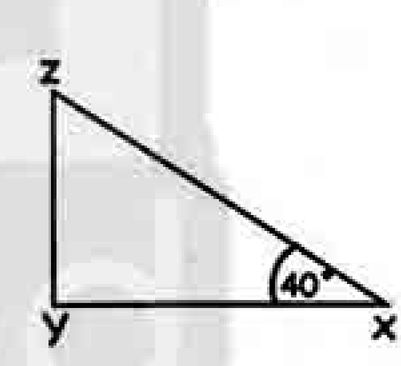
24) In the opposite figure: draw all axes of symmetry.



25) Find: If $\triangle ABC \equiv \triangle XYZ$, complete:

XZ = ... cm   m ($\angle$ A) = ...°





26) Find: $34\frac{1}{2}$ = ... $\simeq$ .... to the nearest unit.

27) Find: $24\frac{1}{4}$ = ... $\simeq$ .... to the nearest tenth.

28) Ahmed has 32.75 pounds and his sister has 15.5 pounds. Find the sum of what they have both.
The sum = ... = ... pounds.

29) A box contains 3 red balls ad 5 green balls. If a ball is drawn randomly. Find the probability that the ball is: a) red .... b) green ....

30) The following table shows the number of participants in the school activities.

Activities	sport	social	art
Number of pupils	6	5	4

Represent these data by a bar line graph.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

9 Giza Governorate - Awseem Educational Directorate

1. Choose the correct answer:

1) 22.5 – 15.27 = ... (7.23 , 12.52 , 17.77)
2) The rectangle has .... axes of symmetry. (4 , 0 , 2)
3) 7 250 ÷ 1 000 = ... (7.25 , 0.725 , 0.75)
4) 42.17 = 0.17 + ... (42.17 , 42 , 0.042)
5) Two sides are congruent if they are .... in length.(equal , greater than , less than)
6) 2 liters = ... mL. (2 000 , 200 , 20)
7) 25 + 0.2 + 0.05 = ... (25.25 , 22.5 , 0.25)
8) 425 tons = ... kg. (425 000 , 4 250 , 0.425)
9) My hair became green .... (certain , possible , impossible)
10) 25.3 – 25.27 = ... (0.03 , 2.5 , 3.03)
11) 725 432 ≃ 725 000 approximated to nearest ....(tens , hundreds , thousands)
12) 7 – 0.25 = ... (7 , 7.25 , 6.75)
13) 43 ÷ 1 000 = ... (4.3 , 43 , 0.043)
14) 24.7 ≃ .... (to nearest unit) (0.25 , 0.27 , 25)
15) 11.46 + 9.82 = ... (7.25 , 2.44 , 21.28)
16) The parallelogram has .... axes of symmetry. (0 , 5 , 4)

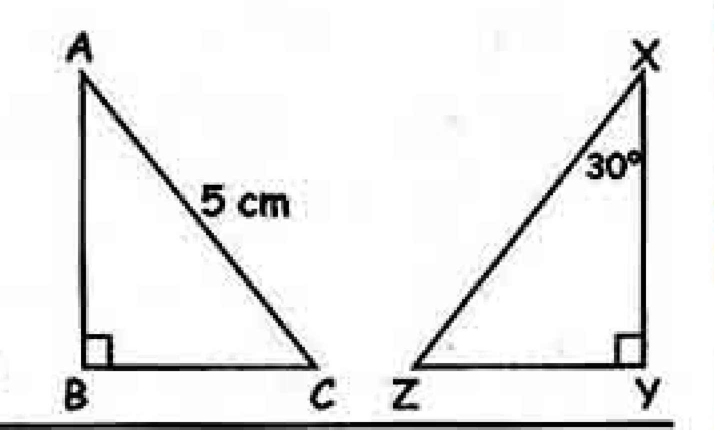
2. Find the result:

a) 3124 + 4231 = ... ≃ .... (to the nearest hundred)
b) 42.7 – 17.82 = ... ≃ .... (to the nearest tenth)

3. In the opposite figures: If △ ABC ≡ △XYZ,

complete:

1) XZ = ... cm
2) m (∠ Z) = ...°



4. Ahmed bought a refrigerator for L.E. 1346.4 and a stove for L.E 925.6. Calculate what he paid. (approximating the result to the nearest 100)

What he paid = ... + ... = ... ≃ ....

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5. If we throw a die, find the probability of getting:

a) Even number = ... b) Prime number = ...

c) The number 2 = ...

6. Represent the following table using histogram:

The grade	1st	2nd	3rd	4th
Number of pupils	80	60	100	70

10) Giza Governorate - 6th October Directorate

1. Choose the correct answer:

1) 236 ≃ .... (to the nearest ten) (230 , 240 , 250 , 260)
2) The liter = ... milliliters. (10 , 100 , 1000 , 10000)
3) 5470 ÷ 100 = ... (54.7 , 5.47 , 1547 , 5470)
4) The quarter of a day = ... hours (12 , 3 , 6 , 15)
5) The probability of the certain event = ... (zero , 0.5 , 1 , 2)
6) The rectangle has .... lines of symmetry. (4 , 2 , 1 , 0)
7) 9835 ≃ 9800 to the nearest .... (10 , 100 , 1000 , 0.1)

2. Choose the correct answer:

1) 29.095 ≃ .... (to the nearest hundred) (29.1 , 30 , 29 , 29.11)
2) 750 gm. .... $\frac{1}{2}$ kg. (< , > , = , otherwise)
3) 0.3 + 0.8 = ... (0.38 , 3.8 , 0.11 , 1.1)
4) 48 hours = ... days (2 , 3 , 4 , 6)
5) The capacity of a bottle of milk = ...
(1 liter , 10 milliliter , 25 milliliter , 50 liters)
6) $12\frac{4}{5}$ ≃ .... (to the nearest unit) (12 , 13 , 12.8 , 12.5)
7) If $\triangle ABC \equiv \triangle XYZ$, then $\overline{AB} \equiv$ .... ($\overline{XY}$, $\overline{YZ}$, $\overline{XZ}$, $\overline{BC}$)

3. Complete:

1) 5700 kg. = ... tons
2) The square has .... lines of symmetry.
3) 87.34 ≃ .... (to the nearest one decimal place)

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

4. Find the result:

1) 5.63 + 11.25 = ... ≃ .... (to the nearest whole number)

2) 54.7 – 5.47 = ...

3) 243 ÷ 10 = ...

4) 7234 ÷ 100 = ...

5) A box contains 5 red balls and 4 green balls. Find the probability of getting

1) a red ball = ...

2) a green ball = ...

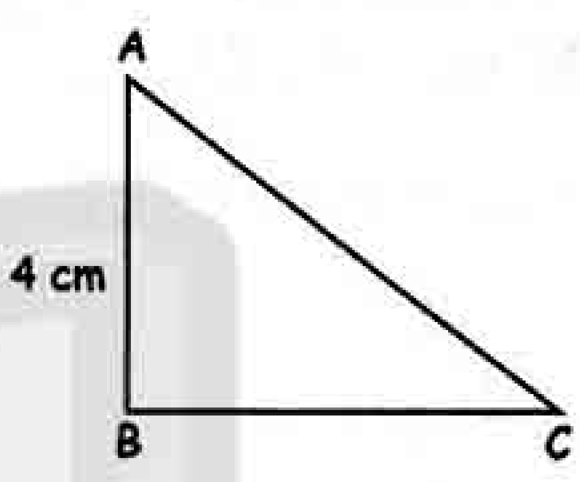
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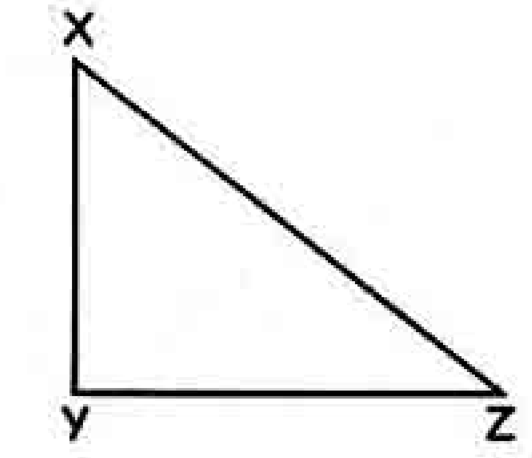
5. a) In the opposite figures:

If △ ABC ≡ △ XYZ, then complete:

1) ∠A ≡ ∠ ....

2) XY = ... cm.





b) Complete in the same pattern:

11.2 , 11.4 , 11.6 , ...

c) The following table shows the number of pupils in four classes in grade 4 at a certain school.

Class	Class 4A	Class 4B	Class 4C	Class 4D
No of pupils	80	60	50	70

Represent these data by a histogram.

11 Alexandria Governorate - East Educational Zone

1. Choose the correct answer:

1) 6.8 ☐ 3.6 = 3.2 (= , × , + , –)

2) 3965 ÷ 1000 = ... (3.965 , 39.65 , 0.3965 , 396.5)

3) 11.3 – 9.07 = ... (2.21 , 19.37 , 2.23 , 20)

4) 7.39 ≃ .... to the nearest tenths. (740 , 7.30 , 7.4 , 73.9)

5) 55.5 – 25.05 = ... (30.54 , 44.66 , 27.84 , 30.45)

6) $5\frac{8}{10}$ – 3.08 = ... (2.16 , 2.88 , 2.4 , 2.72)

7) 9835 ≃ 9800 to the nearest .... (ten , hundred , unit , thousand)

8) The number of axes of symmetry of a rectangle = ... (1 , 2 , 3 , 4)

9) A rectangle is .... to be congruent to an equilateral. (certain , possible , impossible)

10) There are .... axes of symmetry of an equilateral triangle. (0 , 1 , 2 , 3)

11) $\frac{1}{2}$ liter = ... milliliters. (225 , 750 , 275 , 500)

12) As throwing a die, then the probability of the appearance of a prime number = ...

($\frac{1}{6}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى




13) The sun rises from the west is a/an .... event.

(certain , possible , impossible, otherwise)

14) The probability of a certain event = ... (0 , 1 , 5 , 3)

2. Complete the following:

1) 105.8 − 23.47 = ... ≃ .... (to the nearest tenths)

2) 145.65 − .... = 100

3) Isosceles triangle has .... axes of symmetry.

4) A day = ... hours.

5) △○ , △○○ , △○○○ , ...

6) Two hours and half = ... minutes.

3. Find the results of the following:

1) 6.451 − 5.13 = ...

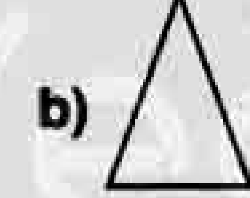
2) 540 − 26.5 = ... ≃ .... (to nearest to hundred)

3) The greatest whole number which if approximated to the nearest 1000 the result will be 4000 is ....

4) 8543 meters approximated to the nearest kilometers ≃ .... kilometers.

5) Draw the lines of symmetry of each following shapes:

a) 

b) 

6) 13.2 , 13.4 , 13.6 , ... , ... in the same pattern.

7) Mazen has 90 pounds. He bought a toy for 28.45 pounds and a pen for 11.55 pounds: How much money was left with him?

8) A box contains 9 blue balls, 7 white balls and 4 yellow balls, all equal in size. If a ball is drawn, find the probability that the drawn ball is:

a) blue = ... b) not blue = ...

9) Arrange the following in ascending order: 650 kilograms , 7000 grams , $\frac{1}{2}$ ton

The order is: .... , ... , ...

10) Represent the following data by using histogram:

Activities	Sport	Social	Art
Number of pupils	40	15	25

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

12 Alexandria Governorate - El-Montazah Zone

1. Choose the correct answer:

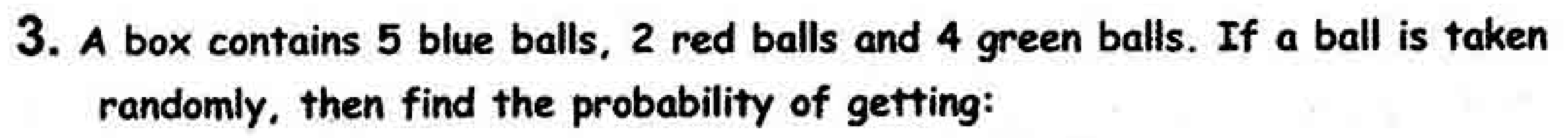
1) 45.17 ≃ .... to the nearest tenth. (45.2 , 45.1 , 46)
2) The square has .... lines of symmetry. (2 , 3 , 4)
3) 3865 ≃ 3900 to the nearest .... (tens , hundred , thousand)
4) 2 liters = ... mL. (20 , 200 , 2000)
5) The probability of impossible events = ... (zero , 2 , 5)
6) 3 kg = ... gm. (30, 300 , 3000)
7) The isosceles triangle has .... line(s) of symmetry. (zero , 1 , 2)
8) 34652 ≃ .... to the nearest 1000. (40000 , 35000 , 34700)
9) $\frac{1}{4}$ liter = ... mL. (250 , 300 , 450)
10) The probability of appearing of a head when throwing a metallic coin = ... (1 , $\frac{1}{2}$, zero)
11) One day = ... hours. (10 , 24 , 60)
12) The probability of a sure event = ... (zero , 1 , 3)
13) There are .... lines of symmetry of the rectangle. (1 , 2 , 3)
14) 53.4 ≃ .... to the nearest unit. (53 , 54 , 53.4)
15) The normal temperature of the human body temperature is ....°. (30 , 37 , 50)
16) The probability of a cat with 3 heads is .... (possible , impossible , certain)
17) 5000 mL = ... liters. (500 , 50 , 5)
18) The equilateral triangle has .... line(s) of symmetry. (1 , 2 , 3)
19) The temperature of boiling of water = ...°. (zero , 20 , 100)
20) .... is the unit of measuring temperature. (Degree , Meter , Liter)

2. Complete:

1) 5 liters = ... mL.
2) The rhombus has .... lines of symmetry.
3) 3.5 + 2.4 = ...
4) 5368 ≃ .... to the nearest 100.
5) 35 ton = ... kg.
6) If △ ABC ≡ △ XYZ, then AB ≡ ....
7) Two polygons are congruent if their corresponding sides are ....
8) 53827 ≃ .... to the nearest 10.
9) 4735 ≃ 5000 to the nearest ....
10) The temperature of freezing of water = ...° .

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هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



3. A box contains 5 blue balls, 2 red balls and 4 green balls. If a ball is taken randomly, then find the probability of getting:

1) Blue ball.
2) Red ball.
3) Red or green.
4) Not green.

4. Yassin has LE 25.5 and his brother Mohamed has L.E. 32.5. Find the total money with them.

---

5. Represent these data by a histogram:

The grade	First	Second	Third	Fourth
No. of students	50	70	40	30

13) Qalubia Governorate - Mathematics Supervision

1. Choose the correct answer:

1) $1 - 0.4 =$ .... (0.5 , 0.6 , 0.7 , 0.8)
2) The value of the digit 4 in the number 0.243 is .... (0.4 , 0.04 , 40 , 0.43)
3) The square has .... line(s) of symmetry . (4 , 3 , 2 , 1)
4) The probability of the certain event is .... (zero , 1 , 0.5 , 0.2)
5) 120 minutes = ... hours. (2 , 3 , 4 , 5)
6) When you throw a dice once, the probability of getting the number 7 is .... (zero , 1 , $\frac{1}{2}$, $\frac{1}{3}$)
7) The event of (the sun rises from the west) is .... event. (impossible , certain , possible , otherwise)
8) $\frac{3}{10} =$ .... (0.3 , 0.03 , 0.003 , 3)
9) $8095 \simeq 8000$ to the nearest .... (10 , 100 , 0.01 , 1000)
10) $2.7 + 5.07 =$ .... (7.7 , 7.77 , 7.14 , 8)
11) Four and five tenths = ... (4.5 , 5.4 , 0.54 , 0.45)
12) 1.75 ☐ $1\frac{3}{4}$ .... (> , < , =, otherwise)
13) $\frac{1}{3}$ day .... hours. (6 , 8 , 12 , 24)
14) A bag contains 9 red balls and 3 white balls. If a ball is drawn randomly, then the probability of drawing a red ball = ... ($\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{3}$, $\frac{1}{4}$)

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. Complete:

15) 4685 ÷ 100 = ... ≃ .... (to the nearest tenth)

16) 36.7 ≃ .... (to the nearest unit)

17) Two squares are congruent if the side length of one of them is ....

18) 32 days ≃ .... weeks.

19) 4 liters = ... milliliters.

20) The place value of the digit 7 in the number 12.457 is ....

3.
21) 11.1 , 22.2 , 33. 3 , ... , ... (in the same pattern)

22) If △ ABC ≡ △ XYZ, then $\overline{BC}$ ≡ .... and m (∠ B) = m (∠ ....).

23) The probability of getting an even number from 2 , 3 , 4 , 5 , 7 is ....

24) Fill in the empty squares with the suitable digits:

813.297 = 813 + 0.☐ + 0.☐☐ + 0.☐☐☐

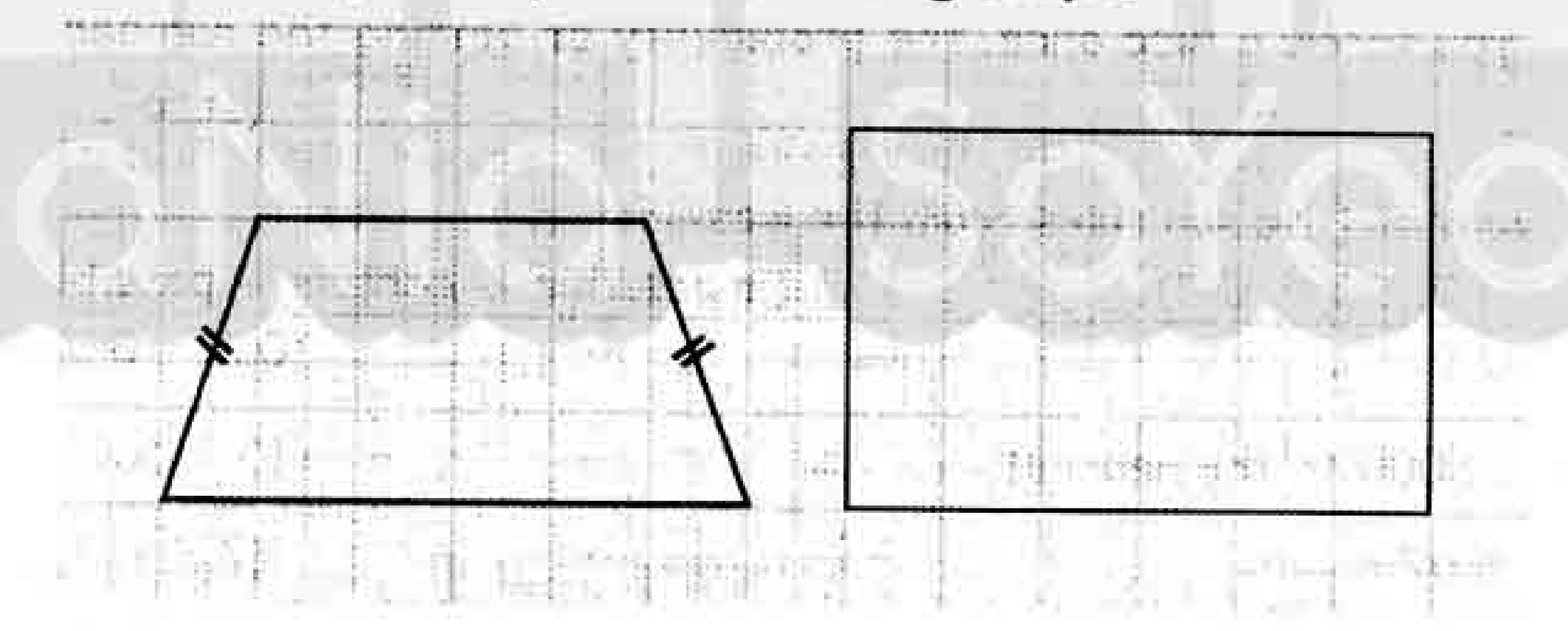
25) 13 – 2.65 = ...

26) Arrange in an ascending order 0.6 , $\frac{1}{4}$, 0.33 , $\frac{1}{2}$

The order is: .... , ... , ... , ...

27) Find the value of: (5 × 10) + (45 ÷ 10)

28) Draw the lines of symmetry of the following shapes:



29) Mona has 98.5 pounds. She bought a T-shirt for 56.25 pounds.

Calculate the remainder with her.

30) Represent data of the following table by bars:

Grade	First	Second	Third	Fourth
No. of pupils	30	45	65	70

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

14) Menofia Governorate - Menouf Educational Directorate

1. Choose the correct answer:

1) $4.7 + 3.07 =$ .... (7.14 , 8.4 , 7.77 , 7.70)
2) The probability of the certain event = ... (zero , 0.5 , 1 , 2)
3) $1.09 + 7 =$ .... (1.79 , 1.16 , 10.7 , 8.09)
4) The number of lines of symmetry of the rectangle = ... (zero , 4 , 2 , 3)
5) $494 \div 100 =$ .... (5.95 , 4.94 , 49.4 , 0.494)
6) The diameter in the rectangle divides it into two .... triangles. (congruent , non-congruent , isosceles , equilateral)
7) $23.56 \simeq 24$ (to the nearest ....). (0.1 , 0.01 , unit , 10)
8) If a die is rolled once, then the probability of the appearance of an even number = ... ($\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{4}$, $\frac{1}{2}$)
9) 45 tons = ... kg. (450 , 4.5 , 45000 , 4500)
10) $96.58 \simeq$ .... (to the nearest unit). (96 , 97 , 96.5 , 96.6)
11) $23\frac{3}{4} \simeq$ .... (to the nearest tenth). (24 , 23.7 , 23.8 , 23.1)
12) If $\triangle ABC \equiv \triangle XYZ$, then $\overline{AB} \equiv$ .... ($\overline{AC}$, $\overline{XY}$, $\overline{YZ}$, $\overline{XZ}$)
13) $29.095 \simeq$ .... to the nearest tenth. (29.1 , 30 , 29.11 , 29)
14) The number of lines of symmetry of the equilateral triangle is .... (3 , 2 , 1 , 0)

---

2. Complete each of the following:

15) The .... triangle has zero lines of symmetry.
16) The probability that the sun rises from west is ....
17) 30 hours = 1 day + ... hours.
18) The two squares are congruent if their side lengths are ....
19) 1 gm = ... kg.
20) 7500 milliliters = ... liters.

---

3. Find the result:

21) $42819 \div 1000 =$ .... $\simeq$ .... (to the nearest hundredth)
22) $12.78 - 3.5 =$ .... $\simeq$ .... (to the nearest unit)
23) $7\frac{1}{4} + 8.3 =$ .... $\simeq$ .... (to the nearest tenth)
24) $\frac{3}{10} + 0.8 =$ ....
25) $87852 - 25764 =$ .... $\simeq$ .... (to the nearest hundredth)
26) Arrange the following quantities in descending order:
2000 milliliters , 10 liters , 3 milliliters , 3 liters
The order: .... , ... , ... , ...

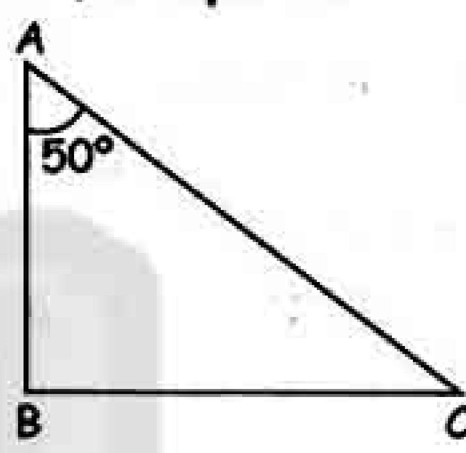


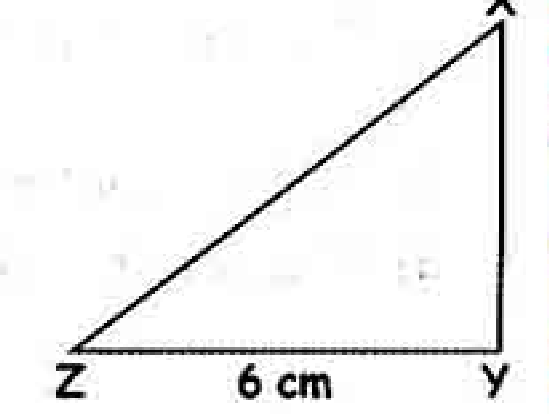
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

27) Emad has 98.5 pounds. He bought a shirt for 76.75 pounds. Find the remainder with him.
The remainder = ...

28) A box contains 4 blue balls, 2 red balls, and 3 green balls, all equal in size. If a ball is drawn blindly, what is the probability that the drawn ball is:
1) white 2) not red 3) blue

29) In the opposite figure:
If △ ABC ≡ △ XYZ, YZ = 6 cm, (∠A) = 50°, complete:
1) $\overline{XY}$ ≡ ....
2) ∠C ≡ ∠ ....
3) m (∠X) = ... °.
4) BC = ... cm.





30) The table below represents the number of pupils in the first four levels in a primary school. Represent these data by histogram.

Levels	First	Second	Third	Fourth
Number of pupils	80	60	100	70

15 Gharbia Governorate - Official Language Schools

1. Choose the correct answer:

1) 1.07 + 9 = ... (1.16 , 1.79 , 10.07 , 10.70)
2) The probability of the certain event is .... (0 , 1 , 0.5 , 0.25)
3) The diagonal of the rectangle divides it into two .... triangles. (equilateral , isosceles , congruent , acute)
4) 82051 – 31981 to the nearest thousand is .... (5 thousand , 50 hundred , 5 million , 50 thousand)
5) 8790 kilograms ☐ 5 tons .... (< , = , > , ≤)
6) 47 days ≃ .... weeks. (5 , 6 , 7 , 8)
7) The polygon which has 4 lines of symmetry is called .... (parallelogram , square , rectangle , rhombus)

2. Complete:

8) The unit of measuring capacity is ....
9) One day = ... minutes.
10) 654 ÷ 1000 = ... ≃ .... to the nearest one decimal place.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

11) 10 , 9.6 , 9.2 .... , ... in the same pattern.

12) The probability of getting a number less than 3 when a die is thrown once = ...

13) 35 dm^3 = ... mL.

3. Choose the correct answer:

14) $4\frac{5}{7}$ km ≃ .... to the nearest km. (4 , 5 , 7 , 4.5)

15) 2538 ÷ 100 ◯ 2538 thousandths. (< , = , > , ≤)

16) $\frac{3}{4}$ ton = ... kilograms. (750 , 7500 , 75000 , 750 thousands)

17) .... is from the methods of collecting data. (Symmetry , Congruence , Observation , Capacity)

18) 54 hours = ... days. ($2\frac{1}{2}$, $2\frac{3}{4}$, $2\frac{1}{3}$, $2\frac{1}{4}$)

19) 80 – 12.576 = ... (6.7424 , 67.424 , 674.24 , 67.442)

20) If the polygon ABCDE ≡ the polygon XYZLM, then ∠ D ≡ ∠ .... (X , Y , Z , L)

4. Answer the following:

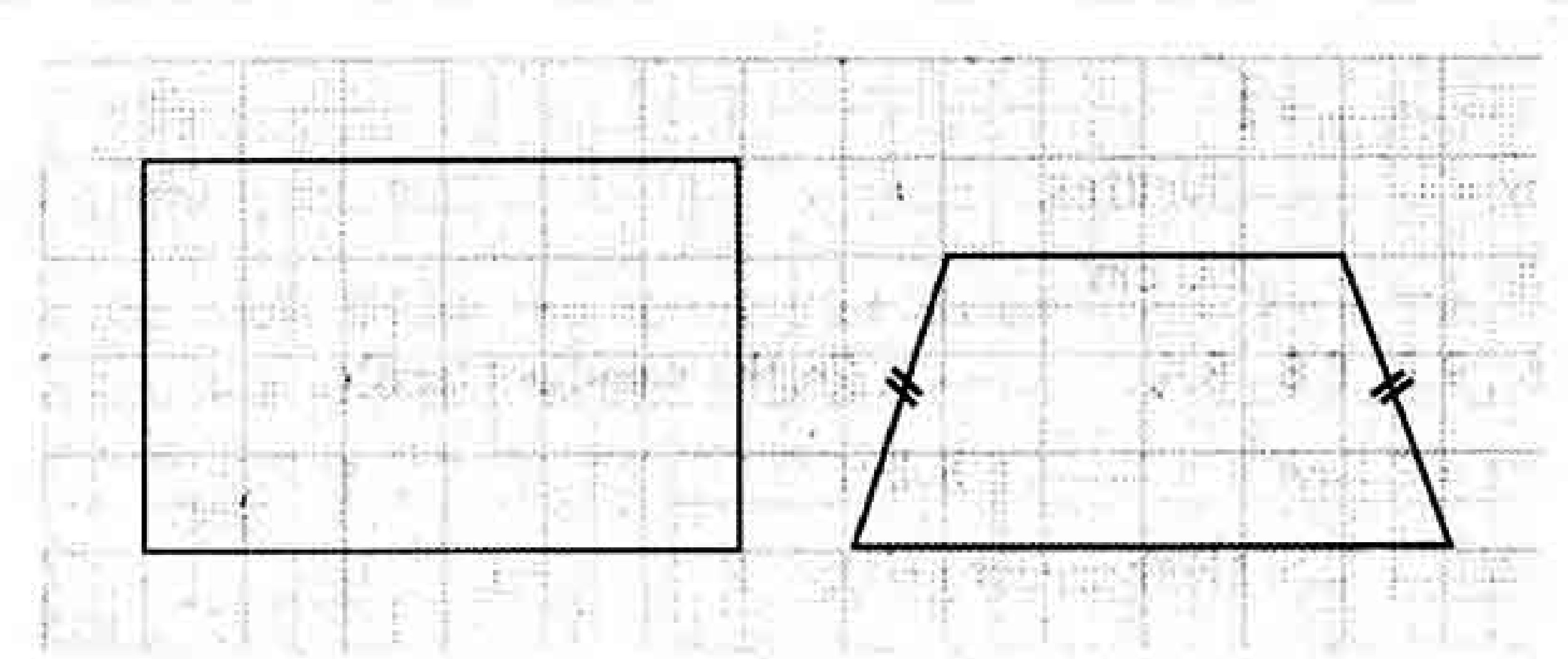
21) Find the result of (508 ÷ 100) + 14.92.

....

22) Arrange in descending order: 8 L, 9000 mL, 5 dm^3, 6500 cm^3.
The descending order is: .... , ... , ... , ...

23) Mazen has L.E 35. He bought a ball for L.E 9.75 and a book for L.E $15\frac{1}{4}$. Find the remainder with Mazen.

24) Draw the lines of symmetry for each of the following figures:



25) A box contains 8 red balls, 2 white balls and 5 yellow balls. If a ball is drawn blindly, what is the probability that:

a) The drawn ball is red = ...

b) The drawn ball is not white = ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

5. Answer the following:

26) 31 − .... = 28.514.

27) Write down two whole numbers that if approximated to the nearest ten, the result will be 860.

28) A man bought 8 tons of iron for building his family house. If the price of one kilogram of iron is L.E. 5, find:

a) The price of one ton of iron ....

b) The price of 8 tons of iron ....

29) 567.34 + 786.25 = ... $\simeq$ .... to the nearest hundred.

30) The following table shows the marks of some subjects of two pupils in a school.

Subject / The pupil	Maths	Science	Social studies	English
First	30	25	30	20
Second	20	20	25	15

Represent these data by double bars.

16 Dakahlia Governorate - Maths Supervision

1. Choose the correct answer:

1) 3500 kg = ... ton. (35 , 3.5 , 0.35)

2) 3421 $\simeq$ 3400 to the nearest .... (10 , 100 , 1000)

3) 6 dm^3 = ... cm^3. (60 , 600 , 6000)

4) If $\overline{AB} \equiv \overline{XY}$, then AB .... XY. (= , ≡ , <)

5) The rhombus has .... line(s) of symmetry. (1 , 0 , 2)

6) 0.67 + ... = 1 (0.3 , 0.33 , 0.033)

7) The day = ... minutes. (24 , 1440 , 86400)

8) $\frac{1}{4}$ liter .... 250 dm^3. (< , = , >)

9) 10 , 9.6 , 9.2 , 8.8 , 8.4 , ... (in the same pattern) (8 , 0.4 , 2.8)

10) 50 hours = 2 days + ... hours. (2 , 10 , 120)

11) 3.28 $\simeq$ .... to the nearest unit. (3.3 , 2.3 , 3)

12) .... doesn't have line(s) of symmetry. (Parallelogram , Square , Rectangle)

13) 475 piasters $\simeq$ .... (to the nearest pound) (4.8 , 5 , 4)

14) 2345 ÷ 100 = ... (23.45 , 45.23 , 234.5)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. Complete:

15) 25 days ≃ .... weeks.

16) There is (are) .... line(s) of symmetry in an isosceles triangle.

17) Double bar graph is used for representing ....

18) Five tenths + five hundredths = ...

19) The square whose area = 25 cm² is congruent to the square whose perimeter = ... cm.

20) 2345 grams = ... kilograms.

---

3. Answer the following:

21) Ahmed had 48 pounds. He bought a calculator for 25.75 pounds and painting case for 7.75 pounds. How munch money is remained with him? (to the nearest pound)

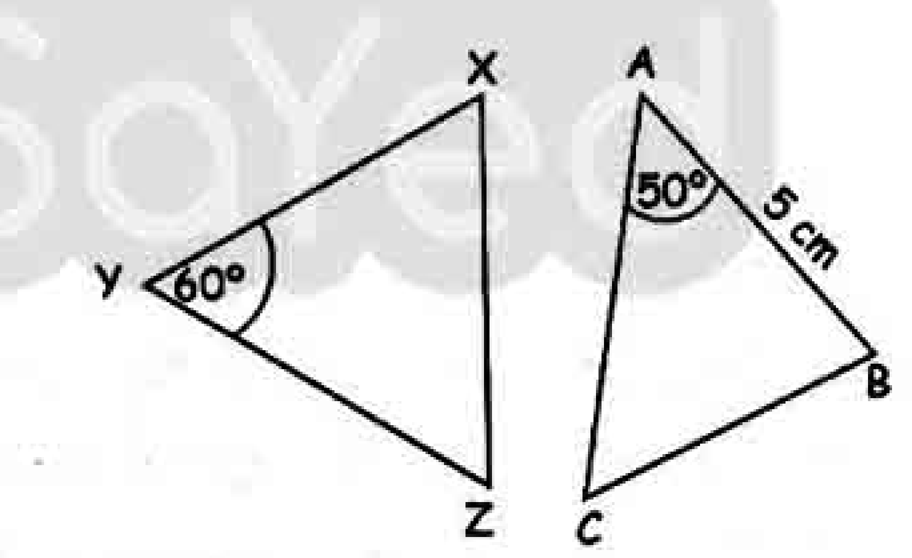
22) A box contains 7 red balls and 1 white ball and 3 green balls. All balls are the same. Calculate the probability that the drawn ball is..................

a) red b) not white c) black d) green

23) 625 pounds are distributed equally among 100 pupils. How munch money did each pupil have (To nearest tenth)?

24) Ahmed has 975 piasters and his sister Sara has 425 piasters. Find the difference between what they have in pounds.

25) If △ ABC ≡ △ XYZ, then



a) $\overline{AB}$ ≡ ....

b) XY = ... cm.

c) m ∠ X = m (∠..........).

d) m (∠ B) = ... °.

26) The following table shows the numbers of absent pupils from the fourth grade and fifth grade in a school within 4 days:

Day / Grade	1st	2nd	3rd	4th
Fourth	8	7	6	5
Fifth	6	4	8	5

Represent these data by double bars.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem | موقع ذاكرولى التعليمى | الصف الرابع الابتدائى

17 Kafr El Sheikh - Mathematics Supervision

1. Choose the correct answer:

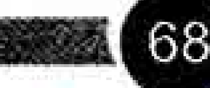
1) 236 ≃ ……… to the nearest ten. (230 , 240 , 250, 260)
2) The liter = ……… milliliters. (10 , 100 , 1000 , 10000)
3) 5670 ÷ 100 = ……… . (567 , 65.7 , 5.67 , 5670)
4) $2\frac{1}{3}$ hours ◯ 150 minutes. (< , = , > , otherwise)
5) ……… is from the methods of collecting data. (Symmetry , Meter , Congruency , Observation)
6) $4\frac{8}{10}$ + 4.08 = ……… . (8.14 , 8.4 , 8.88 , 8.16)
7) ……… is included between 0.3 and 0.4. (0.41 , 0.31 , 0.13 , 0.14)
8) The isosceles trapezium has ……… line(s) of symmetry. (1 , 2 , 3 , 4)
9) The probability of the certain event = ……… . (0 , 2 , 1 , 0.5)
10) The value of the digit 3 in 4.238 is ……… . (0.3 , 0.03 , 3 , 0.003)
11) 3.5 tons = ……… kg. (35 , 34 , 3500 , 5300)
12) The distance between two villages is 4800 meters, this approximately = ……… (5000 km , 4000 km , 5 km , 4 km)
13) LE 4 ……… PT 375. (< , = , > , otherwise)
14) 530, 533, 536, this pattern is increasing by ……… . (3 , 4 , 5, 539)

2. Complete the following:

15) 12.7 + 10.007 = ……… ≃ ……… to the nearest $\frac{1}{10}$
16) 52.46 – 2.731 = ……… ≃ ……… to the nearest unit.
17) 34 days ≃ ……… to the nearest week.
18) The probability of appearing of a prime number when throwing a fair die once = ……… .
19) Two polygons are congruent if their corresponding ……… are qual in length and their corresponding ……… are equal in measure.
20) 3500 milliliters = ……… liters.

3. Answer the following:

21) Emad has LE 98.5 pounds. He bought a shirt for 76.75 pounds. Calculate the remainder with him.
22) A third of a day = ……… hours = ……… minutes.


هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى


23) $5\frac{3}{4} \simeq$ .... to the nearest unit.

24) 10 , 9.6 , 9.2 , ... , ... in the same pattern.

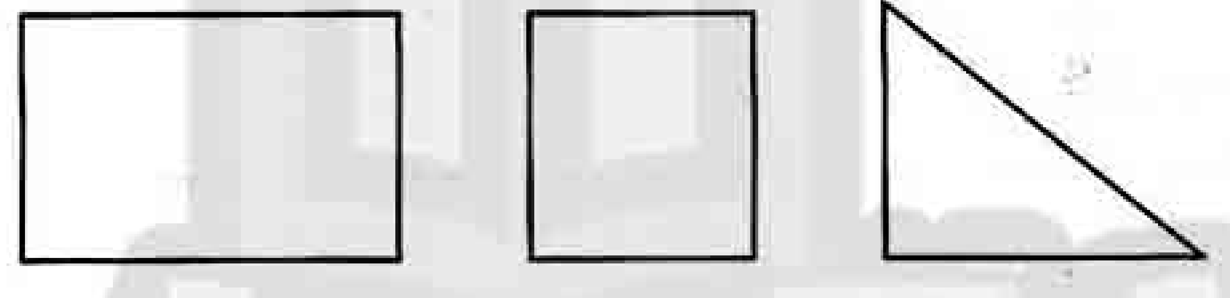
25) A box contains 4 blue balls, 2 red balls and 5 green balls. If a ball is drawn blindly, then the probability that the drawn ball is red = ...

26) Arrange the following in descending order: 8.75 liters, 9000 mL, 5 liters, 6500 mL .
The order is: .... , ... , ... , ...

27) 13 – 2.65 = ...

28) Ahmed bought ten balls for L.E. 154, what is the price of one ball? ....

29) Draw (if possible) one line of symmetry:



30) The following table shows the number of studying hours of each of Ali and Omar in some days of the week:

The day / The name	Saturday	Sunday	Monday
Ali	3	4	6
Omar	4	5	4

Represent these data by double bars.

18 Damietta - Inspection of Mathematics for Official Language Schools

1. Choose the correct answer:

1) 45.095 ≃ .... (to the nearest tenth). (45.1 , 46 , 45.11 , 45)

2) The probability of the certain event = ... (0 , 0.5 , 1 , 2)

3) The equilateral triangle has .... line(s) of symmetry. (4 , 3 , 1 , 0)

4) 9078 ≃ 9080 to the nearest .... (unit , 10 , 100 , 1000)

5) 49.57 ÷ 10 = ... (4.957 , 49.57 , 495.7 , 4957)

6) 6.5 + 2.5 .... 12.8 – 3.8 (> , < , = , ≃)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

7) The diagonal of the rectangle divides it into two .... triangles.
(congruent , different , isosceles , equilateral)

8) The value of the digit 3 in the number 4.238 is .... (0.3 , 0.03 , 3 , 0.003)

9) 7568 ≃ .... (to the nearest hundred) . (75068 , 7570 , 7600 , 7500)

10) A third of a day = ... hours. (4 , 6 , 8 , 12)

11) $2\frac{1}{2}$ tons = ... kg. (2.5 , 25 , 250 , 2500)

12) The probability of the appearance of an even number as throwing a fair die = ...
($\frac{1}{6}$, $\frac{1}{3}$, $\frac{1}{2}$, 1)

13) The figure which has the largest number of lines of symmetry is ....


14) 2.6 + ... = 3.8 (1 , 1.2 , 2.1 , 0.2)

---

2. Complete the following:

15) Two squares are congruent if their side lengths are ....

16) $1\frac{1}{3}$ hours = ... minutes.

17) 15 – 3.45 = ...

18) The isosceles triangle has .... line(s) of symmetry.

19) The probability of the appearance of a head when tossing a coin once = ...

20) Seven and six hundredths = ... (in digits).

---

3. Answer the following:

21) 86.7 – 17.45 = ... ≃ .... (to the nearest one decimal)

22) 152.7 + 14.08 = ... ≃ .... (to the nearest ten)

23) 3465 ÷ 1000 = ... ≃ .... (to the nearest unit)

24) Arrange the following in ascending order:

4 liters , 5200 milliliters , 4.5 dm^3 , 4700 milliliters

The ascending order is .... , ... , ... , ...

25) 3.2 , 3.4 , 3.6 , ... , ... (in the same pattern)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

26) Ahmed had 48.8 pounds. He bought a shirt for 36.75 pounds, calculate the remainder with him.

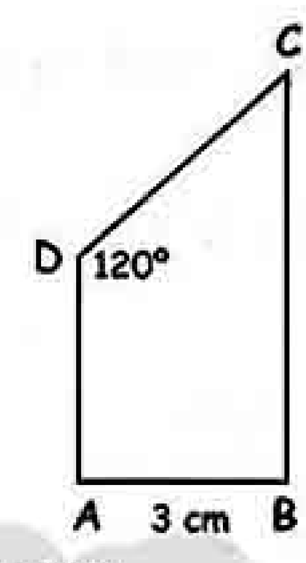
The remainder = ... = ... pound(s).

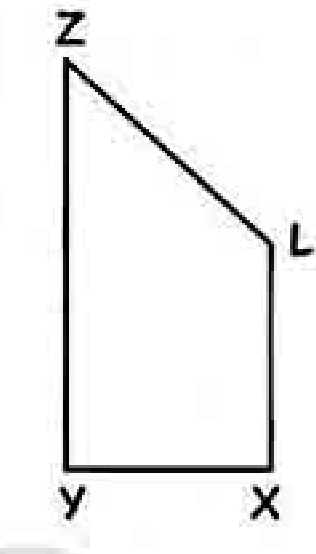
27) A box contains 5 red balls, 3 blue balls, and 7 green balls, all equal in size. If one ball is drawn randomly, find:

a) The probability that the drawn ball is blue = ...

b) The probability that the drawn ball is yellow = ...

28) If ABCD ≡ XYZL, complete:





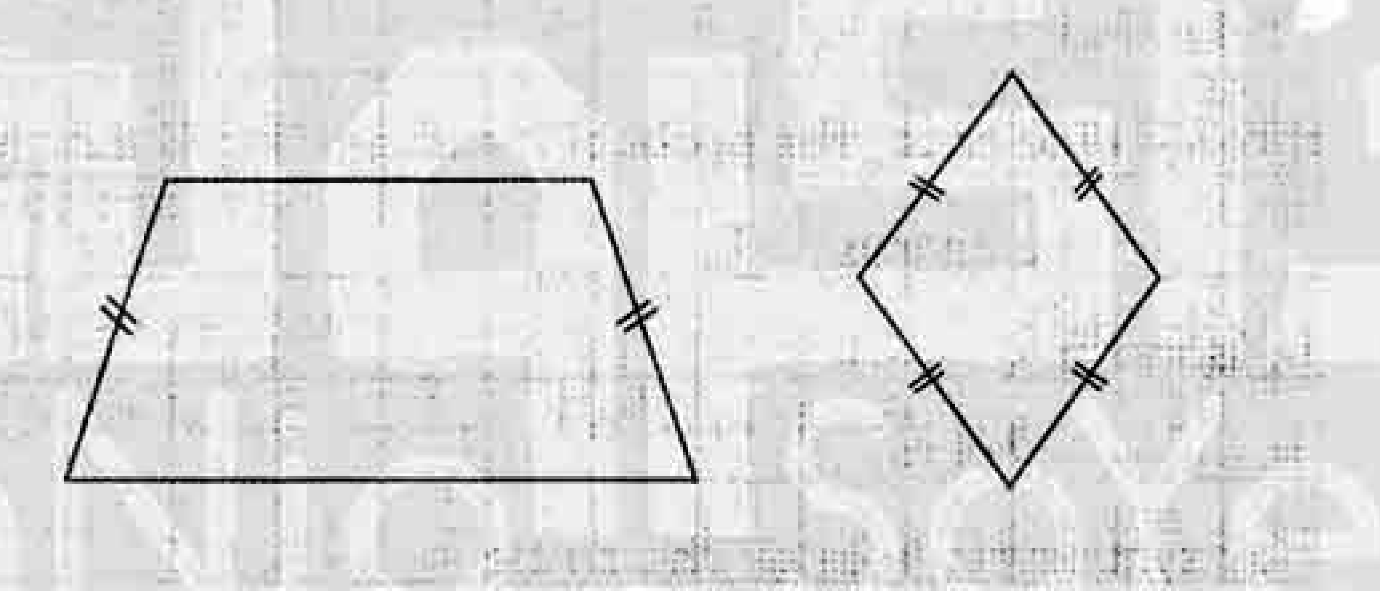
1) XY = ... cm.

2) $\overline{ZL} \equiv \overline{.......}$

3) m (∠ X) = m (∠ ......).

4) m (∠ L) = ... °

29) Draw the lines of symmetry of each of the following shapes:



30) The table shows the number of the students participating in the school activities in a primary school.

Activities	Sport	Social	Music	Art
Number of Students	20	35	25	15

Represent these data using a bar line graph (histogram).

19 Sharkia Governorate - Directorate of Education - Dep. of Governmental L. Schools

1. Choose the correct answer:

1) 3567 = 3600 to nearest .... (10 , 100 , 1000 , 0.01)

2) The rhombus has .... lines of symmetry. (0 , 1 , 2 , 4)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

3) 1.3 ton = ... kg. (13 , 130 , 1300 , 13000)

4) The probability of a certain event = ... $(0 , \frac{1}{2} , 1 , 2)$

5) 5470 ÷ 100 = ... (0.547 , 54.7 , 5.47 , 547)

6) 24.8 ≃ .... (to the nearest unit) (21 , 24.9 , 25 , 20)

7) The sum of probabilities of all possible events = ... $(0 , 1 , 2 , \frac{1}{2})$

8) 3 tons ◯ 300 kgm. (< , > , = , ≃)

9) The value of the digit 6 in the number 18.16 is .... (6 , 60 , 0.6 , 0.06)

10) 0.2 + 3 = ... (23 , 3.2 , 2.3 , 0.23)

11) The probability of the appearance of a head as throwing a coin once is .... $(1 , \frac{1}{2} , 0 , \frac{2}{3})$

12) The polygon ABCD ≡ the polygon XYZL, then ∠ B ≡ ∠ .... (X , Y , Z , L)

13) 4750 milliliters = ... liters. $(475 , 47\frac{1}{2} , 4\frac{3}{4} , 4\frac{1}{4})$

14) The normal temperature of a person is .... (17° , 27° , 37° , 47°)

2. Complete the following:

15) When you throw a dice once, the probability of getting the number 5 is ....

16) 724 ≃ .... (to the nearest 10).

17) 0.5 + five thousandth = ...



18) $\frac{1}{4}$ of a day = ... hours.

19) The number of symmetric lines of the circle ....

20) 2 tons = ... grams.

3. Find the results:

21) 23.4 + 7.18 = ...

22) 312.5 – 157.125 = ...

23) 348 ÷ 10 = ...

24) 100 – 47.85 = ...

25) 5 , 5.4 , 5.8 , ... , ... (in the same pattern)

26) 4.81 + 25.362 = ... ≃ .... (to the nearest tenth)

27) Arrange in descending order:

$\frac{2}{3}$ day , 18 hours , 1020 minutes , $\frac{1}{2}$ day

The order is: .... , ... , ... , ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

28) A box contains 4 blue balls, 2 red balls and 3 green balls, all equal in size, if a ball is drawn blindly, then:

a) The probability of drawing a blue ball = ...

b) The probability of drawing a non-red ball = ...

29) Mazen has 25 pounds. He bought a ball for L.E 9.75. **How much money remained with him?**

The money that remained with him = ...

30) The following table represents the number of pupils in different levels:

Levels	First	Second	Third	Fourth
Number of pupils	4	12	10	6

Represent these data by histogram.

20) *Port Said Governorate - Port Said Official Language Schools*

1. Choose the correct answer:

1) 45 ÷ 10 = ... (0.45 , 4.5 , 450 , 9)

2) The probability of the impossible event = ... (zero , 1 , 2 , $\frac{1}{2}$)

3) 9085 ≃ 9000 to the nearest .... (10 , 100 , 1000 , 10000)

4) The equilateral triangle has .... line(s) of symmetry. (1 , 4 , 2 , 3)

5) 13 + 0.5 = ... (18 , 13.5 , 135 , 513)

6) The probability of the certain event = ... (zero , 1 , 2 , 0.6)

7) One hour = ... minutes. (60 , 90 , 30 , 20)

---

2. Choose the correct answer:

8) 289 ÷ 100 = ... (28.9 , 28900 , 28 , 2.89)

9) 36 ≃ .... to the nearest ten. (30 , 40 , 360 , 10)

10) 5 kgm. = ... gm. (5 , 50 , 500 , 5000)

11) △ △ ○ △ △ ○ .... (in the same pattern).



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

12) The probability that "the sun rises from the east" is .... event.
(possible , impossible , certain , otherwise)

13) The rectangle has .... line(s) of symmetry. (1 , zero , 2 , 4)

14) 738 ≃ 700 to the nearest .... (hundred , tenth , unit , thousand)

---

3. Complete:

15) 65.7 ≃ .... to the nearest unit.

16) 23 ÷ .... = 0.23

17) Two squares are congruent if their side lengths are ....

18) The liter = ... milliliters.

19) The probability of getting a tail when tossing a coin once is ....

20) 3.49 ≃ .... (to the nearest tenth)

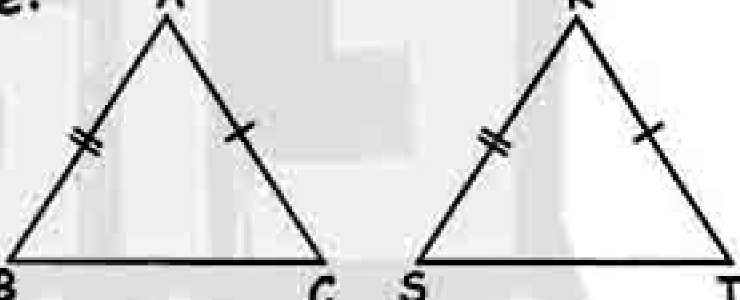
---

4. A) Find the result:

21)
$$\begin{array}{r} 21.4 \\ +\ \ 7.5 \\ \hline \end{array}$$

22)
$$\begin{array}{r} 5.7 \\ -\ \ 1.4 \\ \hline \end{array}$$

B) In the opposite figure: △ ABC ≡ △ RST , complete:



23) ∠A ≡ ∠.................

24) ∠B ≡ ∠.................

C) 25) Emad had 98.5 pounds. He bought a shirt for 76.5 pounds. Calculate what <u>remained</u> with him.

---

5. A) Put the suitable sign (< , = or >):

26) One day  15 hours

27) 200 milliliters  2 liters

28) 4 pounds ☐ 375 piasters

B) 29) The table below represents the number of pupils in the first four levels in a primary school.

Levels	First	Second	Third	Fourth
Number of pupils	30	50	70	40

Represent these data by histogram.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

21 Ismailia Governorate - Directorate of Education

1. Complete the following:

1) The rectangle has .... line(s) of symmetry.

2) $\frac{1}{2}$ liter = ... cm^3.

3) The probability of a certain event = ...

4) Two squares are congruent if their .... are equal in length.

5) 6.25 – .... = 6

6) 6.2 , 6.4 , 6.6 , ... , ... in the same pattern.

---

2. Choose the correct answer:

7) 42.63 ≃ 42.6 approximated to the nearest .... (tenth , ten , unit , 100)

8) 57.28 ≃ .... to the nearest 10. (57.3 , 60 , 50 , 57.2)

9) $8\frac{3}{4}$ ≃ .... to the nearest unit. (8.9 , 8.3 , 4.8)

10) 6240 ÷ 100 = 62.4 (✓ or ✗)

11) 2 tons .... 2000 grams (< , > , =)

12) 12763 ≃ .... to the nearest 1000. (1300 , 13000 , 12000 , 1200)

13) 0.35 + ... = 1 (0.34 , 0.36 , 0.65 , 0.75)

14) 69.81 ≃ .... unit. (69 , 610 , 70 , 69.8)

15) If ABC △ ≡ △ XYZ, then AC = ... (XY , YZ , XZ , AB)

16) The figure △ is congruent with .... (▭ , ◺ , ○ , △)

17) A circle has .... number(s) of lines of symmetry . (0, 1, 5, very large)

18) The sun rising from the east is .... event.
(a certain , a possible , an impossible otherwise)

19) The probability of getting a tail when tossing a coin = ... ($\frac{1}{6}$, $\frac{1}{2}$, 1 , 0)

20) The probability of getting number 5 when rolling a die = ... ($\frac{5}{6}$, $\frac{1}{6}$, $\frac{1}{2}$, 0)

---

3. Find:

21) 48 ÷ 1000 = ...

22) 6.57 + 29.8 = ...

23) 25 – 6.25 = ...

24) 35.76 ≃ .... to the nearest tenth.

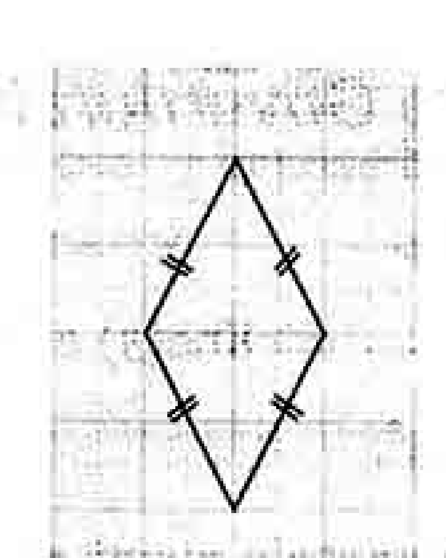
25) 4576 ≃ .... to the nearest 100 .

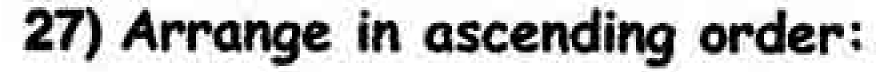
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem | موقع ذاكرولى التعليمى | الصف الرابع الابتدائى

26) **Using the opposite figure:**

a) The name of the figure is ....

b) Draw its line(s) of symmetry.





27) **Arrange in ascending order:**

10 hours , $\frac{1}{2}$ day , 20 minutes

.... , ... , ...

28) A bag contains 3 black, 4 red and 6 white balls, a ball is chosen randomly. **Find the probability of choosing:**

a) red ball. b) a ball which is not white.

29) The following table shows the number of studying hours studding by Ali and Omar:

The day / Name	Sat.	Sun.	Mon.
Ali	7	6	5
Omar	8	6	4

Represent these data by double bars.

22) Suez Governorate - Directorate of Education

1. Choose the correct answer:

1) The number of lines of symmetry of rectangle is .... (0 , 1 , 2 , 4)

2) The quarter of a day = ... hours. (6 , 12 , 18 , 24)

3) The probability of the certain event is .... (0 , $\frac{1}{2}$, 1 , 2)

4) 29.095 ≃ .... to the nearest tenth. (29.1 , 30 , 29.11 , 29.01)

5) 0.017 is less than .... (0.051 , 0.014 , 0.0009 , 0.001)

6) 47.49 ÷ 10 = ... (47.49 , 4749 , 4.749)

7) 4 $\frac{7}{10}$ + 3.07 = ... (7.14 , 7.77 , 7.4 , 7.7)

8) The liter = ... millilters. (1000 , 10 , 100 , 1000)

9) 236 ≃ .... to the nearest ten. (230 , 240 , 250 , 235)

10) 48 hours = ... days. (2 , 3 , 4 , 1)

11) .... is one of the unit for measuring length. (kg , km , liter , hour)

12) 540 piasters = ... pounds. (5.4 , 54 , 0.54 , 6)

13) 5 kg = ... gm. (50 , 500 , 5000 , 50000)

14) 1 – 0.4 = ... (0.6 , 6 , 1.6 , 0.06)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2. **Complete:**

15) 4672 ≃ ……………… to the nearest hundred.

16) 3 tons = ……………… kg.

17) The isosceles triangle has ……………… line(s) of symmetry.

18) $\frac{1}{2}$ km = ……………… meters.

19) One minute = ……………… seconds.

20) A , Ao , Aoo , ……………… , ……………… (In the same pattern)

---

3. **Find:**

21) 34.85 + 37.63 = ……………… ≃ ……………… to the nearest unit.

22) 29.69 – 12.235 = ……………… .

23) Two polygons are congruent if their corresponding sides are ……………… in length and their corresponding ……………… are equal in measure.

24) A box contains 8 red balls, 5 yellow balls, and a ball is drawn randomly. **Find:**

a) The probability that the drawn ball is red.

b) The probability that the drawn ball is yellow.

25) 6.08 × 10 = ……………… .

26) If Amr has 322 pounds and Mohamed has 85.75 pounds, then the difference between what they have = ………………

27) 8000 m = ……………… km

28) 8.64 × 1000 = ……………… .

29) The following table shows the number of studying hours of both Omar and Hany.

The day / Name	Saturday	Sunday	Monday
Omar	3	4	6
Hany	4	5	4

Represent the table by double bars.

23 Beni Suef Governorate – Directorate of Education

1. **Choose the correct answer:**

1) The isosceles trapezium has ……………… line(s) of symmetry. (0 , 1 , 2 , 3)

2) 3.5 tons = ……………… kg. (35 , 34 , 3500 , 5300)

3) 9085 ≃ 9000 to the nearest ……………… . (ten , hundred , thousand , ten thousand)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

4) 3 days + 3 hours = ... hours. (72 , 51 , 27 , 75)

5) The probability of the certain event is .... (1 , half , $\frac{1}{3}$, 0)

6) 3 , 3.2 , 3.4 , ... (in the same pattern) (3.5 , 3.6 , 3.7 , 6.8)

7) The scalene triangle has .... line(s) of symmetry. (0 , 4 , 3 , 1)

8) 550 milliliters ☐ $\frac{3}{4}$ liters. (< , = , > otherwise)

9) The rectangle ABCD ≡ the rectangle XYZL, then $\overline{BC}$ = ... ($\overline{XY}$, $\overline{YZ}$, $\overline{XZ}$, $\overline{ZL}$)

10) 0.2 + 0.3 + ... = 1 (5 , 0.5 , 0.3 , 0.2)

11) 5.89 ≃ .... to the nearest tenth. (6 , 5.89 , 5.9 , 0.89)

12) If a die is rolled once, then the probability of the appearance of an odd number = ... ($\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{4}$, $\frac{1}{2}$)

13) .... is one of the methods of collecting data. (Congruency , Equality , Noticing , Parallelism)

14) 15 – 4.6 = ... (10.4 , 11.6 , 19.6 , 10.6)

---

2. Complete the following:

15) 56.74 + 59.2 = ...

16) If a coin is drawn once, then the probability of the appearance of a head = ...

17) 89.69 – 12.235 = ...

18) One hour = ... seconds.

19) 34000 millilitres = ... liters.

20) The two squares are congruent, if the side length of one of them equals .... of the other.

---

3. Answer the following questions:

21) 32.15 – 11.2 = ... ≃ .... (to the nearest unit).

22) 54321 ÷ 100 = ... ≃ .... (to the nearest hundred).

23) 2 hours and 30 minutes = ... minutes.

24) The diagonal in the rectangle divides it into two .... triangles, but it is not .... for the rectangle.

25) The sun rises from west is .... event.

26) Arrange the following in ascending order:

9 kg , 8000 gm , 5 $\frac{1}{2}$ kg and 7500 gm

The order is: .... , ... , ... and ....

ذاكرولى
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Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

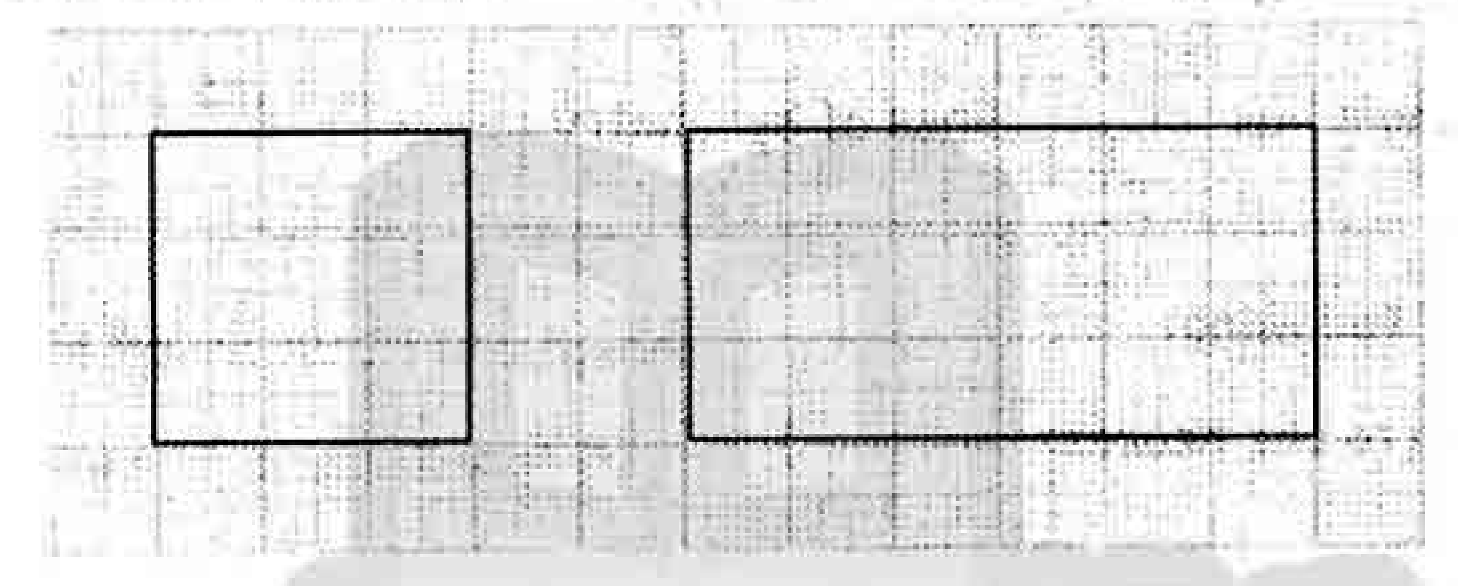
27) Mohamed had 48 pounds. He bought a calculator for 5.75 pounds and a painting case for 7.25 pounds. How much money remained with him?

What Mohamed paid = ... = ... pounds

What remained with him = ... = ... pounds

28) A box contains 6 red balls, 5 white balls and 4 green balls. What is the probability that the drawn ball is red?

29) Draw the lines of symmetry for each of the following figures:



30) The following table shows the number of pupils in the four grades in a primary school. Represent these data by a histogram.

Grades	First	Second	Third	Fourth
Number of pupils	20	30	45	15

24 Fayoum Governorate – Maths Supervision

1. Choose the correct answer:

1) 2 ÷ .... = 0.02 (10 , 0.1 , 100 , 1000)

2) 2500 grams = ... kilograms. (25 , 2.5 , 0.025 , 64)

3) 0.375 = ... to the nearest tenth. (0.3 , 0.4 , 0.37 , 0.38)

4) If the figure ABCD ≡ figure XYZL, then ∠C ≡ ∠.................... . (X , Y , Z , L)

5) 7.8 = 7 + ... (8 , 0.8 , 0.08 , 0.008)

6) 120 minutes = ... hours. (2 ,2.5 , 3 , 3.5)

7) .... is a unit of measuring length. (gram , day , meter , degree)

8) The shape △ is congruent to .... (⏢ , ▭ , □ , △)

9) Your father's weight can be equal to .... (3 tons , 30 gm , 80 kg , 70 tons)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

10) The probability of appearing of an odd number on the upper face of a die = ...

($\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{4}$, $\frac{1}{2}$)

11) $5\frac{3}{4} \simeq$ .... (to the nearest unit) (5 , 5.75 , 6 , 5.8)

12) The probability of appearing a head as throwing a metallic coin once is ....

(1 , $\frac{1}{2}$, zero , $\frac{3}{4}$)

13) The probability of of the impossible event= .... (Zero , 1 , 2 , $\frac{1}{2}$)

14) The rectangle has .... lines of symmetry. (Zero , 4 , 2 , 3)

---

2. Complete the following:

15) 87.9 ≃ 90 (to the nearest ....)

16) 3 tons = ... kg.

17) 48 hours = ... days.

18) The two polygons are congruent if their corresponding .... are equal in length and their corresponding .... are equal in measure.

19) 0.1 , 0.3 , 0.5 , 0.7 , ... , ...

20) The probability of the certain event = ...

---

3. Answer the following:

21) 34.2 + 4.45 = ... ≃ .... (to the nearest unit)

22) 3597 – 2143 = ... ≃ .... (to the nearest hundred)

23) 7 + 0.4 + 0.03 = ...

24) 4237 ÷ 100 = ... ≃ .... (to the nearest $\frac{1}{10}$)

25) Emad has 68.5 pounds. He bought a shirt for 76.75 pounds. Calculate the remainder with her.

The remainder = ... – .... = ...

26) Arrange the following in ascending order: (4 $\frac{1}{2}$ liter , 3500 mL , 7 liters , 2000 mL)

The order : .... , ... , ... , ...

ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

27) A box contains 4 blue balls and 5 white balls. If a ball is drawn blindly, find the probability that the chosen ball is:

1) white = ... 2) green = ...

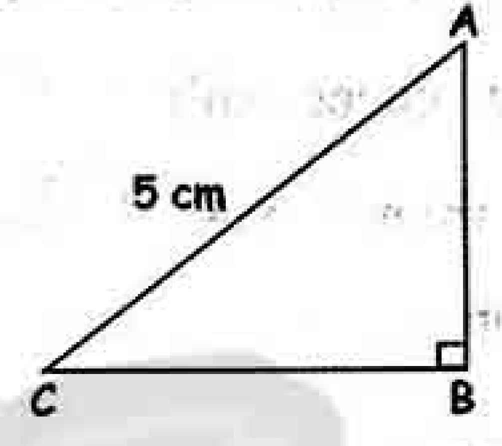
28) In the opposite figure: $\triangle ABC \equiv \triangle XYZ$, then

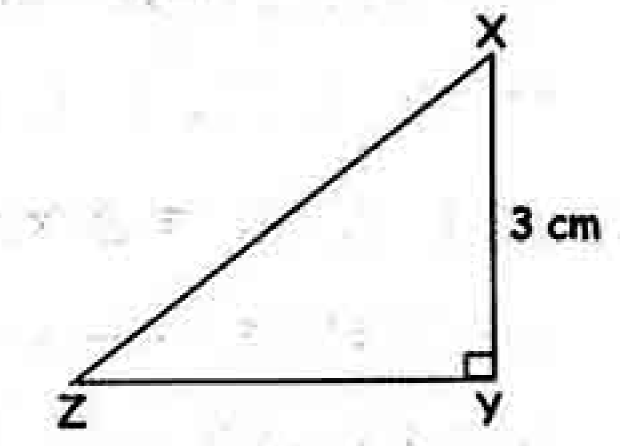
1) XZ = ... cm

2) $\angle B \equiv \angle$ ....

3) AB = ... cm

2) $\overline{YZ} \equiv$ ....





29) The opposite figure ABCD is a square.

Draw two lines of symmetry of it.



30) The following table shows the number of absent pupils from the 4th grade in a school within 4 days.

The day	1st	2nd	3rd	4th
Number of absent pupils	4	8	6	5

Represent these data by a histogram.

25 Minia Governorate - General Supervision of Mathematics

1. Choose the correct answer:

1) $\frac{3}{4}$ hours .... 100 minutes. (> , < , = , ≃)

2) 5000 mL = ... liters. (5 , 50 , 500 , 1000)

3) The square has .... line(s) of symmetry. (0 , 1 , 2 , 4)

4) The probability of the impossible event = ... (0 , 1 , 2 , $\frac{1}{2}$)

5) 8700 kg .... 10 tons. (> , = , < , ≃)

6) 2.3 + ... = 3.3 (4 , 3 , 2 , 1)

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

7) 236 ≃ .... to the nearest ten. (260 , 250 , 240 , 230)

8) 35.1 + 11.3 = ... (35.4 , 44.4 , 46.4 , 46.7)

9) 7234 ≃ 7000 to the nearest .... (ten , hundred , thousand , tenth)

10) Two and three tenth in digits = ... (12.3 , 3.2 , 2.3 , 2.03)

11) 35.7 ≃ .... to the nearest unit. (21 , 30 , 36 , 50)

12) If △ ABC ≡ △ XYZ, then ∠ Y ≡ ∠ .... (X , C , B , Y)

13) 2 meters = ... cm. (20 , 200 , 2000 , 1000)

14) 5470 ÷ 100 = ... (5470 , 0.547 , 5.47 , 54.7)

---

2. Complete:

15) 135.5 + 243.4 = ...

16) 765.3 – 114.3 = ...

17) Two squares are congruent if their side lengths are ....

18) 3 , 6 , 9 , 12 .... (in the same pattern).

19) 321 ≃ .... (in the nearest hundred).

20) The rectangle has .... line(s) of symmetry.

---

3. Answer the questions:

21) ○ △ , ○ △ , ○ △ .... (complete in the same pattern).

22) 9250 grams = ... kg + ... gram.

23) $\frac{1}{2}$ hour = ... minutes.

24) 5.7 = 5 + ...

25) 256.8 – 134.3 = ... ≃ .... approximated to the nearest unit.

26) 351.3 + 124.51 = ... ≃ .... to the nearest $\frac{1}{10}$.

27) Ali had L.E 48.5 he bought a T-shirt for L.E 36.5. Find what remained with him.

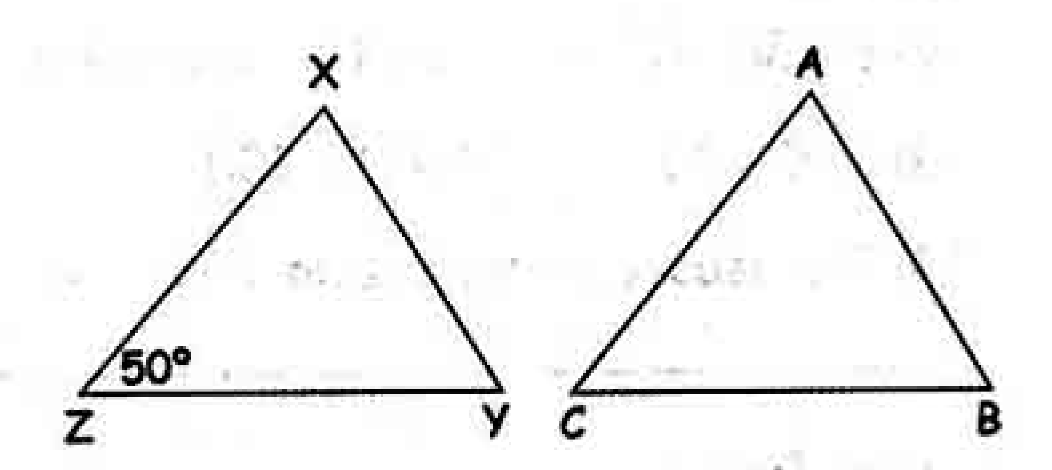
what remained with him = ...

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

28) If $\triangle ABC \equiv \triangle XYZ$, then

$\overline{AB} \equiv$ ....

$m(\angle C) =$ .... °.



29) A box contains 5 blue balls, 2 red balls. If a ball is drawn randomly, then:

The probability that the drawn ball is red = ...

30) Represent the data of the following table by histogram:

The activity	Sport	Art	Culture	Music
Number of pupils	30	40	50	20

26 Assiut Governorate – Assiut Administration of Education

1. Choose the correct answer:

1) The probability of the impossible event = ... (2 , 0 , 1 , 0.5)

2) 236 ≃ .... to the nearest ten. (230 , 240 , 250 , 260)

3) 5670 ÷ 100 = ... (56.7 , 5.67 , 567 , 5670)

4) The weight of the notebook which I carry = ... (100 gm , 10 gm , 1 kg , $\frac{1}{2}$ kg)

5) 540 piasters = ... pounds. (5.4 , 54 , 0.54 , 0.054)

6) The rhombus has .... lines of symmetry. (2 , 3 , 4 , 6)

7) 48 hours = ... (3 days , 2 days , 1 day , 4 days)

8) The capacity of a bottle of mineral water = ...

(1 liter , 2.5 milliliters , 10 milliliters , 5 milliliters)

9) The probability of the appearance of an odd number on the upper face of a die = ...

($\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{7}$, $\frac{1}{6}$)

10) 7 tons = ... kg. (0.007 , 700 , 7000 , 70)

11) The probability of getting a head when tossing a coin once = ...

($\frac{1}{6}$, $\frac{1}{2}$, 1 , 0)

ذاكرولى
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Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

12) 96.58 ≃ .... to the nearest unit. (96 , 97 , 96.6 , 98)

13) 785 ÷ 10 ☐ 8000 ÷ 100 (< , > , =, otherwise)

14) The isosceles trapezium has .... line(s) of symmetry. (0 , 1 , 3 , 2)

---

2. Complete:

15) A box contains 5 blue balls, 3 red balls, then the probability of choosing a blue ball = ...

16) 10 , 9.6 , 9.2 , ... (in the same pattern).

17) The diagonals of a rectangle divides it into two .... triangles but it is not a line of symmetry for it.

18) The quarter of a day = ... hours.

19) 34 days ≃ .... to the nearest week.

20) The liter = ... milliliters.

---

3. Find the result:

21) 11.25 + 5.63 = ... ≃ .... (To the nearest unit)

22) 14.017 – 4.97 = ...

23) 24819 ÷ 1000 = ... ≃ .... (To the nearest tenth)

24) 47.85 + ... = 100

25) Two and half hours = ... minutes.

Answer the following:

26) Seif El Din has 12.89 pounds and his sister Sama has 3.19 pounds then find the difference between what they have to the nearest unit.

27) Find the probability of getting a tail as throwing a fair metallic coin once.

28) A box contains 3 red balls, 2 blue and 4 green balls, all equal in size. If a ball is drawn blindly: Find the probability of drawing:

a) A green ball ....

b) Non-blue ball ....

29) Two squares are congruent if the side of one of them equals ....

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

30) The following table represents number of the pupils who are participating in the school activities of the two grades 4^{th} and 5^{th} primary school.
Represent these data by double bars.

The activity	Cultural	Art	Sport
Number of pupils (4^{th} grade)	10	15	30
Number of pupils (5^{th} grade)	20	25	15

27 Sohag Governorate - Akhmim Ed. Administration

1. Choose the correct answer:

1) 1 day = ... hours. (12 , 20 , 24)
2) 2 kg = ... gm. (20 , 200 , 2000)
3) The equilateral triangle has .... line(s) of symmetry. (0 , 1 , 3)
4) The probability of the appearance of a head when tossing a coin = ... (0 , $\frac{1}{2}$, 1)
5) 4500 mL = ... L. (1 , 3 , 4.5)
6) The probability of the certain event = ... (0 , 1 , 3)
7) 1 minute = ... seconds. (20 , 40 , 60)
8) The capacity of a bottle of water = ... (1 L , 10 mL , 50 L)
9) 2.4 + 3.1 = ... (5.5 , 3.2 , 35.1)
10) 35 ÷ 10 = ... (35 , 3.5 , 35.1)
11) $\frac{1}{2}$ hour = ... (50 , 30 , 60)
12) The suitable weight for a golden bracelet = ... (2 tons , 10 gm , 2 kg)
13) The rhombus has .... line(s) of symmetry. (0 , 2 , 4)
14) 2 tons = ... kg. (100 , 500 , 2000)

2. Complete:

15) △ ○ △ ○ ○ △ ○ ○ ○ .... (in the same pattern)

16) 2431 ≃ .... (to the nearest 10).

ذاكرولى www.zakrooly.com
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17) The two polygons are congruent if their corresponding angles are .... in measure and their sides are .... in length.

18) 2896.8 ≃ .... (to the nearest unit)

19) If △ ABC ≡ △ XYZ, then ∠B ≡ < ....

20) 7239 ≃ .... (to the nearest 1000)

3. Find:

21)
```
   1234.63
 + 2853.24
```

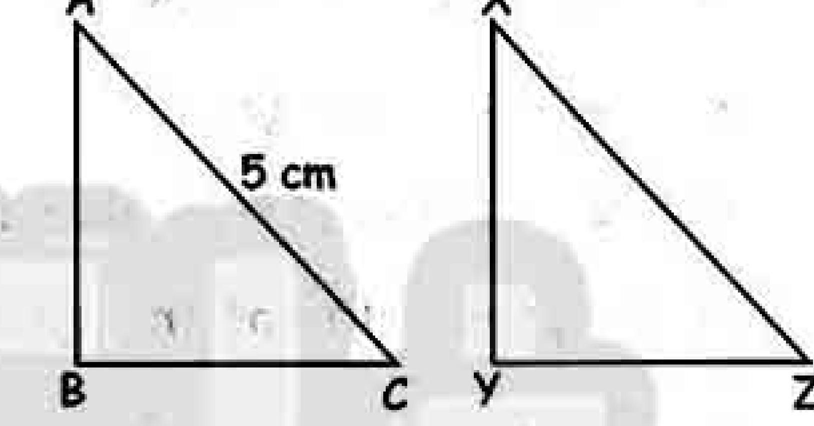
22)
```
   7496.52
 − 4576.31
```

23) If △ ABC ≡ △ XYZ :

a) $\overline{AB}$ ≡ .... b) ∠C ≡ ∠..................

c) XZ = ... cm d) m (∠X) = ...

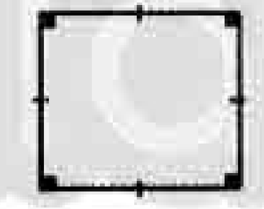


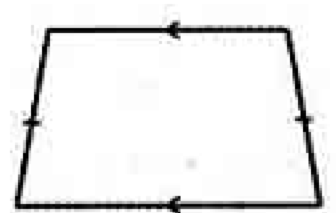


24) Put > , < , =

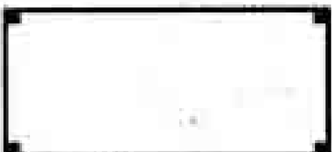
a) 4 tons ☐ 4000 kg b) 9 L ☐ 800 mL

25. A) Join each figure to its number of lines of symmetry:


1


4


2


0

26) 3426 ÷ 100 = ...




هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

27) A box contains 3 red balls, 5 blue balls. What's the probability that the drawn ball is:

a) Red ball? b) White ball?

28) Arrange in ascending order:

kg , gm , ton

.... , ... , ...

29) Sara had 25.36 pounds. If she bought a toy for 13.42, then what remained with her?

The remainder = ...

30) The following table shows the number of participants in the school activities:

Activities	Sports	Art	Music	Tennis
Number of pupils	6	5	4	7

Represent these data by a bar line.

28 Sohag Governorate – Mathematics Supervision

1. Choose the correct answer:

1) The probability of the appearance of a number more than 4 when throwing a fair die once = ... ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{4}{6}$, $\frac{1}{4}$)

2) 3.5 tons = ... kg. (35 , 34 , 3500 , 5300)

3) The isosceles triangle has .... line(s) of symmetry. (1 , 0 , 4 , 2)

4) 29.095 ≃ .... (to the nearest tenth) (29.1 , 30 , 29.11 , 29)

5) The probability of the impossible event .... the probability of the certain event. (> , < , = , ≃)

6) 21.3 + 3.5 ≃ .... (to the nearest unit) (24 , 25 , 24.8 , 20)

7) The number of lines of symmetry of an equilateral triangle .... the number of lines of symmetry of a square. (> , < , = , ≃)

8) If the triangle DEF ≡ the triangle XYZ, then EF ≡ .... (XY , YX , YZ , XZ)

9) The probability of the appearance of a head when throwing a metallic coin once is .... (1 , $\frac{1}{2}$, zero , $\frac{2}{3}$)

10) 619 approximated to the nearest 10 is .... (600 , 610 , 620 , 60)

11) 7081 ≃ 7000 to the nearest .... (10 , 100 , 1000 , 10000)

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12) 96.58 ≃ .... (to the nearest unit). (96 , 97 , 96.5 , 96.6)

13) 1548 ÷ 100 = ... (0.48 , 154 , 15.48 , 154.8)

14) 5 liters = ... milliliters. (50 , 500 , 5000 , 50000)

2. Complete:

15) 1 hour and half = ... minutes.

16) The probability of the impossible event = ...

17) The square has .... lines of symmetry.

18) 878.68 – 257.64 = ... ≃ .... (to the nearest hundred)

19) 89.568 + 3.25 = ...

20) 14.6 ≃ .... (to the nearest unit).

3. 21) Hossam has P.T 42.50 and his sister Hend has P.T 97.50.
Find the difference between what they have to the nearest pounds.

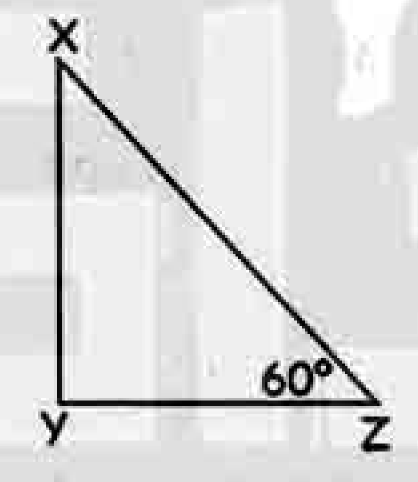
22) In the opposite figure if △ ABC ≡ △ XYZ, then complete:

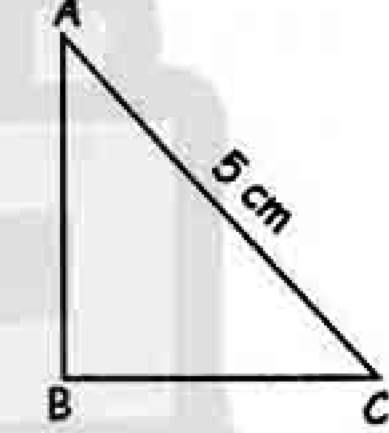

a) $\overline{XZ}$ ≡ ....

b) XZ = ... cm.

c) (∠ Z) ≡ (∠........)

d) m (∠ C) = ... °





23) A box contains 5 blue balls, two red balls and 3 green balls. If a ball is drawn blindly, complete:

a) The probability that the drawn ball is red = ...

b) The probability that the drawn ball is green = ...

24) The following table shows the number of pupils in each grade:

Grade	First	Second	Third	Fourth	Fifth
Number of pupils	30	25	20	35	40

Represent these data using a histogram.

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UNIT 1 Fractions and Decimal Numbers

Exercise 1 (A)

1. a) $\frac{1}{4}$ b) $\frac{4}{8}$ or $\frac{1}{2}$ c) $\frac{2}{7}$ d) $\frac{3}{8}$ e) $\frac{5}{6}$

f) $\frac{8}{16}$ or $\frac{1}{2}$ g) $\frac{1}{4}$ h) $\frac{2}{3}$ i) $\frac{8}{16}$ or $\frac{1}{2}$

j) $\frac{2}{6}$ or $\frac{1}{3}$ k) $\frac{1}{8}$ l) $\frac{5}{6}$

2. Left to the pupil.

3. a) 8 b) 9 c) 2 d) 5

e) 2 f) 6 g) 3 h) 5

4. a) $\frac{3}{⑦}$, $\frac{1}{⑤}$, $\frac{⑤}{9}$ b) $\frac{4}{1}$, $\frac{12}{16}$, $\frac{5}{7}$

c) $\frac{1}{4}$, $\frac{18}{11}$, $\frac{28}{9}$ d) $\frac{2}{3}$, $\frac{5}{8}$, $\frac{3}{4}$

5. Left to the pupil.

6. a) $\frac{24}{33}$ b) $\frac{50}{60}$ c) $\frac{2}{18}$ d) $\frac{20}{30}$ e) $\frac{15}{50}$

(There are many other solutions.)

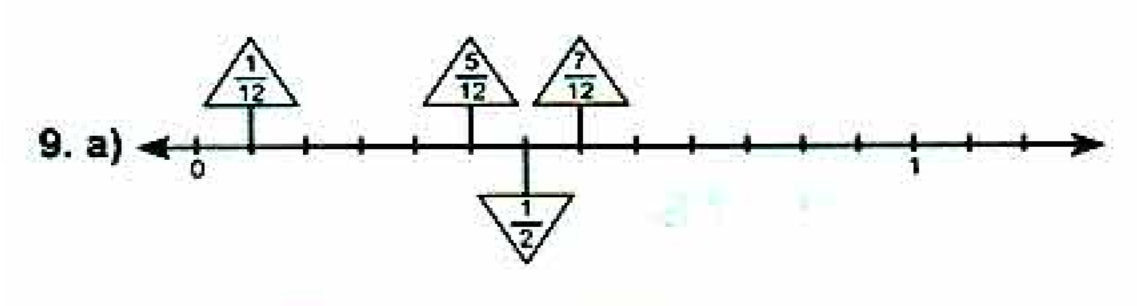
7. a) 4, 12, 5 b) 4, 42, 70 c) 10, 20, 30

d) 10, 6, 12 e) 6, 12, 15

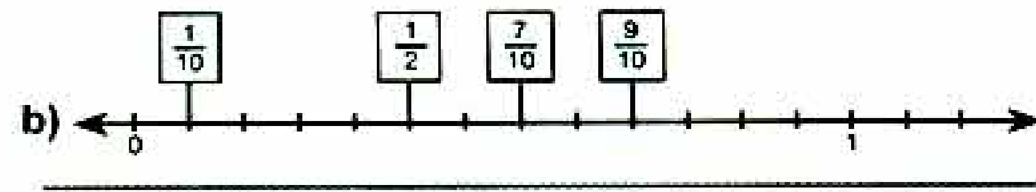
8. a) $\frac{6}{7}$ b) $\frac{3}{11}$ c) $\frac{1}{5}$ d) $\frac{3}{7}$

e) $\frac{1}{4}$ f) $\frac{4}{5}$ g) $\frac{7}{8}$ h) $\frac{11}{12}$

9. a)



b)



10. Left to the pupil.

Exercise 1 (B)

1. a) $\frac{(3 \times ⑤) + ②}{5} = \frac{15 + 2}{5} = \frac{17}{5}$

b) $\frac{4 \times 10 + 3}{10} = \frac{40 + 3}{10} = \frac{43}{10}$

c) $\frac{11}{5}$ d) $\frac{21}{2}$

From e) to h) are left to the pupil.

2. a) $1\frac{①}{4}$ $\quad 5 \div 4 = 1$, $5 - 4 = 1$ b) $1\frac{①}{10}$ $\quad 11 \div 10 = 1$, $11 - 10 = 1$

c), d), e), f), g) and h) are left to the pupil.

3. a) > b) > c) < d) =

e) > f) > g) > h) =

4. a) Since 4 x 3 < 2 x 7 so, $\frac{4}{7} < \frac{2}{3}$

c) Since 8 x 10 < 9 x 9 so, $\frac{8}{9} < \frac{9}{10}$

e) Since 5 x 7 < 3 x 42 so, $\frac{5}{42} < \frac{3}{7}$

g) Since 2 x 4 < 3 x 5 so, $1\frac{2}{5} < 1\frac{3}{4}$

b), d), f) and h) are left to the pupil.

5. a) L.C.M. = 15, $\frac{3}{5} = \frac{9}{15}$, $\frac{2}{3} = \frac{10}{15}$

The order is: $\frac{7}{15}$, $\frac{3}{5}$, $\frac{2}{3}$

b) L.C.M. of 4, 8, 2 and 16 is 16

$\frac{3}{4} = \frac{12}{16}$, $\frac{5}{8} = \frac{10}{16}$, $\frac{1}{2} = \frac{8}{16}$, $\frac{13}{16} = \frac{13}{16}$

The order is: $\frac{8}{16}$, $\frac{10}{16}$, $\frac{12}{16}$, $\frac{13}{16}$

So: $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{13}{16}$

c) L.C.M. of 3, 8, 6 and 4 is 24

$\frac{2}{3} = \frac{16}{24}$, $\frac{7}{8} = \frac{21}{24}$, $\frac{5}{6} = \frac{20}{24}$, $\frac{1}{4} = \frac{6}{24}$

The order is: $\frac{6}{24}$, $\frac{16}{24}$, $\frac{20}{24}$, $\frac{21}{24}$

So: $\frac{1}{4}$, $\frac{2}{3}$, $\frac{5}{6}$, $\frac{7}{8}$

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d) $\frac{7}{2} = 3\frac{1}{2}$, $\frac{5}{3} = 1\frac{2}{3}$

The smallest number is $\frac{5}{6}$

The greatest number is $3\frac{1}{2} = \frac{7}{2}$,

$1\frac{2}{3} < 1\frac{3}{4}$ because $2 \times 4 < 3 \times 3$

The order is: $\frac{5}{6}$, $1\frac{2}{3}$, $1\frac{3}{4}$, $\frac{7}{2}$

e) $8\frac{1}{7}$, $8\frac{3}{7}$, $8\frac{4}{7}$, 9

---

6. a) L.C.M. of 4 , 3 and 12 is 12

$\frac{3}{4} = \frac{9}{12}$, $\frac{2}{3} = \frac{8}{12}$

The order is: $\frac{9}{12}$, $\frac{8}{12}$, $\frac{7}{12}$ so, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{7}{12}$

b) L.C.M. of 3 , 6 and 2 is 6

$\frac{2}{3} = \frac{4}{6}$, $\frac{5}{6}$, $\frac{1}{2} = \frac{3}{6}$, $\frac{1}{3}$ is the smallest.

The order is: $\frac{5}{6}$, $\frac{4}{6}$, $\frac{3}{6}$, $\frac{2}{6}$

So: $\frac{5}{6}$, $\frac{2}{3}$, $\frac{1}{2}$, $\frac{1}{3}$

c) L.C.M. of 7 , 2 and 14 is 14

$\frac{2}{7} = \frac{4}{14}$, $\frac{1}{2} = \frac{7}{14}$, $\frac{9}{14}$, 1 is the greatest.

The order is: 1 , $\frac{9}{14}$, $\frac{7}{14}$, $\frac{4}{14}$

So: 1 , $\frac{9}{14}$, $\frac{1}{2}$, $\frac{2}{7}$

d) L.C.M. of 4 , 5 , 10 and 2 is 20

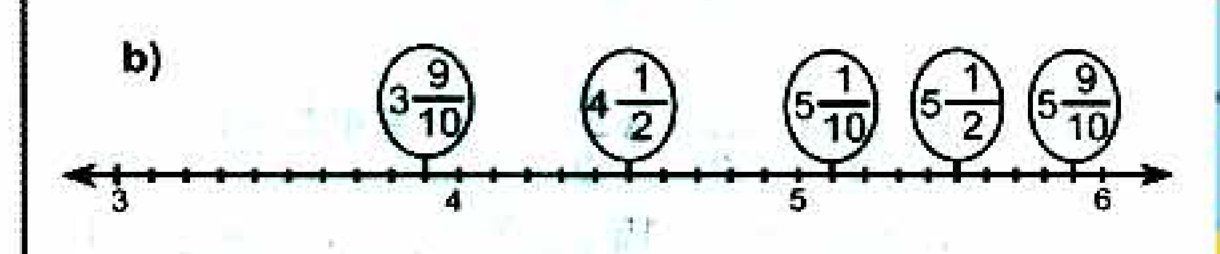
$\frac{3}{4} = \frac{15}{20}$, $\frac{1}{5} = \frac{4}{20}$, $\frac{7}{10} = \frac{14}{20}$, $\frac{1}{2} = \frac{10}{20}$

The order is: $\frac{15}{20}$, $\frac{14}{20}$, $\frac{10}{20}$, $\frac{4}{20}$

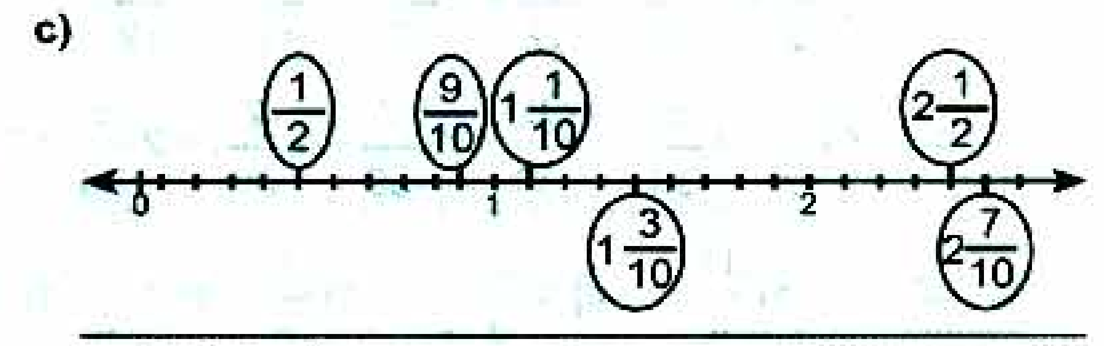
So: $\frac{3}{4}$, $\frac{7}{10}$, $\frac{1}{2}$, $\frac{1}{5}$

7. a) Left to the pupil.

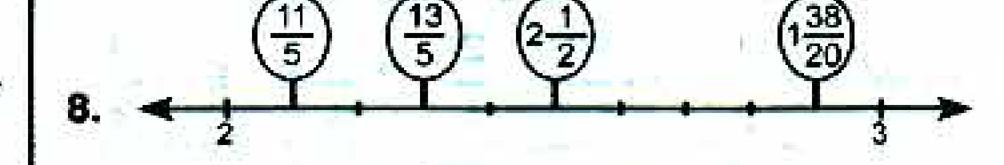
b)



c)



8.



Exercise 1 (C)

1, 2 Left to the pupil.

---

3. a) $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$

b) $1 - \frac{1}{4} = \frac{3}{4}$

c) $\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$

d) $\frac{1}{6} + \frac{1}{2} = \frac{8}{12} = \frac{2}{3}$

---

4. a) $\frac{2}{3} + \frac{3}{4} = \frac{8}{12} + \frac{9}{12} = \frac{17}{12} = 1\frac{5}{12}$

b) $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$

c) $1\frac{12}{21} - \frac{10}{21} = 1\frac{2}{21}$

From d) to h) are left to the pupil.

---

5. a) $(\frac{6}{7} + \frac{5}{7}) - \frac{3}{7} = \frac{11}{7} - \frac{3}{7} = \frac{8}{7} = 1\frac{1}{7}$

b) $(1 - \frac{5}{6}) + \frac{7}{6} = (\frac{6}{6} - \frac{5}{6}) + \frac{7}{6}$

$= \frac{1}{6} + \frac{7}{6} = \frac{8}{6} = \frac{4}{3} = 1\frac{1}{3}$

c) $(2 - \frac{3}{4}) + \frac{5}{4} = (\frac{8}{4} - \frac{3}{4}) + \frac{5}{4}$

$= \frac{5}{4} + \frac{5}{4} = \frac{10}{4} = \frac{5}{2} = 2\frac{1}{2}$

d) left to the pupil.

e) $(\frac{10}{4} + \frac{5}{4}) - \frac{6}{8} = \frac{15}{4} - \frac{6}{8} = \frac{30}{8} - \frac{6}{8} = \frac{24}{8} = 3$

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f) $(9\frac{4}{6} - 5\frac{1}{6}) + 1\frac{1}{2}$

$= 4\frac{3}{6} + 1\frac{1}{2} = 4\frac{1}{2} + 1\frac{1}{2} = 5\frac{2}{2} = 6$

g) $(3\frac{3}{12} + 1\frac{4}{12}) - \frac{15}{12} = 4\frac{7}{12} - 1\frac{3}{12} = 3\frac{4}{12} = 3\frac{1}{3}$

h) $(7\frac{12}{30} - 4\frac{5}{30}) - \frac{32}{30} = (3\frac{7}{30} - 1\frac{2}{30}) = 2\frac{5}{30} = 2\frac{1}{6}$

6. a) 0 b) $\frac{17}{6}$ c) $4\frac{2}{3}$ d) $\frac{1}{5}$ e) $1\frac{7}{9}$ f) $3\frac{29}{56}$

7. Money left $= 7\frac{1}{2} - 2\frac{1}{4} = 7\frac{2}{4} - 2\frac{1}{4} =$ L.E. $5\frac{1}{4}$

8. The total weight

$= 3\frac{1}{2} + 5\frac{3}{8} + 4\frac{1}{4} = 3\frac{4}{8} + 5\frac{3}{8} + 4\frac{2}{8}$

$= 12\frac{9}{8} = 13\frac{1}{8}$ kg.

9. What he paid $= 12\frac{1}{4} + 6\frac{1}{2} = 12\frac{1}{4} + 6\frac{2}{4} =$ L.E. $18\frac{3}{4}$

10. The total cost

$= 3\frac{1}{4} + 2\frac{3}{4} = 5\frac{4}{4} =$ L.E. 6

Money left = 10 – 6 = L.E. 4

11. left to the pupil.

Exercise 2

1. a) 1.7

b) , c) , d) , e) , f) , g) are left to the pupil.

2. a) $\frac{4}{10} = 0.4$ b) 2.7 c) 436.7

d) 9.18 e) 56.72 f) 2.14

g) 97.005 h) 1.209

3. a) $\frac{⑥}{10} = 0.6$ b) $\frac{⑪}{10} = 1.1$

c) $\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 0.75$

d) $26\frac{1 \times 4}{25 \times 4} = 26\frac{4}{100} = 26.04$

e) $\frac{64}{400} = \frac{64 \div 4}{400 \div 4} = \frac{16}{100} = 0.16$

f) $\frac{14 \div 2}{2000 \div 2} = \frac{7}{1000} = 0.007$

g) $\frac{1002 \div 3}{300 \div 3} = \frac{334}{100} = 3.34$

h) is left to the pupil.

4. a) $\frac{7}{10}$ b) $\frac{83}{10}$ c) $512\frac{4}{10}$

d) $5\frac{27}{1000}$ e) $17\frac{23}{100}$ f) $6\frac{9}{100}$

g) $5\frac{17}{1000}$ h) $28\frac{1}{1000}$

5. a) 8.1 b) 25.3 c) 185.7

d) 7.53 e) 500.24 f) 6.057

g) 0.029 h) 432.07

6. a) Seven tenths.

b) Fourteen and two tenths.

c) Three hundred fifty and nine tenths.

d) Two thousand eighty three and one tenth.

e) Three and fifty eight hundredths.

f) Thirty five hundredths.

g) Five hundred sixty eight thousandths.

h) One and one thousandth.

7. Left to the pupil.

8. a) 12 + 0.19 + 0.007 b) 75.276 c) 6, 0.8

d) 0.4 e) 5.1 f) 7

g) 6.3 h) 3.2

9. a) 21$\underline{3}$2.⑦ , 3$\underline{2}$7.② , 10$\underline{2}$0.⑧

b) $\underline{1}$8.⑦3 , $\underline{3}$0.⑨5 , $\underline{7}$1.⑤

c) 4$\underline{6}$7.⑧ , 54$\underline{3}$2.① , 1$\underline{0}$0.①

10. a) $\underline{1}$29.7⑧5 b) $\underline{1}$95.2⑦3 c) $\underline{1}$75.1⑨8

d) $\underline{6}$95.7⑧6 e) $\underline{3}$18.0⑧

11. a) 7$\underline{4}$.1③8 b) 67$\underline{5}$.2⑥1 c) $\underline{7}$.2⓪3

d) 17$\underline{5}$.6② e) 1$\underline{8}$.0⑦

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12. a) 40 b) 0.4 c) 0.004
d) 0.004 e) 0.04

13. a) hundredths b) tens c) thousandths
d) hundreds e) tenths

14. a) 0.20 = 0.200 0.900 = 0.90 = 0.9
b) 0.7 = 0.70 = 0.700 0.300 = 0.30 = 0.3
c) 0.6 = 0.60 = 0.600 0.100 = 0.10 = 0.1

15. a)
8.746
8 + 0.746
8 + 0.7 + 0.04 + 0.006

b)
195.678
195 + 0.678
195 + 0.6 + 0.07 + 0.008

c)
25.691
25 + 0.691
25 + 0.6 + 0.09 + 0.001

d)
103.152
103 + 0.152
103 + 0.1 + 0.05 + 0.002

e) Left to the pupil.

16. a) 9, 3, 7, 2 b) 7, 6, 5, 4, 8
c) 8, 5, 3, 1 d) 280.419

17. Left to the pupil.

18. , 19. Left to the pupil.

20. 4.211

Exercise 3

1. a) 0,1 b) 49,50 c) 7,8 d) 9,10
e) 1,2 f) 0,1 g) 5, 6

2. a) 0.11 , 0.12 , 0.13 b) 17.1, 17.2, 17.3
c) 57.11 , 57.12 , 57.13
d) 49.041 , 49.042 , 49.043

3. a) 16.3 b) 6 c) 3.42 d) 29.5

4. a) 3.05 b) 9.47 c) 23.9 d) 0.76

5. a) < b) > c) =
d) = e) > f) <
g) = h) <

6. a) 17.03, 17.019, 17.7 b) 34.07, 34.2
c) 34, 34.07, 34.2 d) 17.019, 17.03
e) 17.019, 17.03 f) 34.07

7. a) 3.2, 3.12, 3.215, 10.04 b) 1.3 , 1.12
c) 1.3 , 1.12 d) 3.12 , 3.2 , 3.215
e) 3.215 , 3.2 f) 1.12, 10.04
g) 1.12, 1.3, 3.12, 3.2, 3.215, 10.04

8. a) 5.08 , 5.8 , 8.5 , 58
b) 31.24 , 34.102 , 34.12 , 34.2
c) 152.13 , 152.3 , 157 , 157.1
d) 6.63 , $6\frac{1}{2}$, $6\frac{1}{4}$, 6.11
e) $10\frac{13}{20}$, $10\frac{3}{5}$, 10.56, $10\frac{1}{2}$
f) 107.9 , 17.1 , 7.3 , 1.079, 0.079

9. a) 18.04 , 18.040 b) 0.10 , 0.1
c) 5.73 , 5.730 d) 9.7 , 9.700

10. a)
7.3 7.8 8.7 9.1
7 8 9 10
7.3 < 7.8 < 8.7 < 9.1
b) The order: 14.7 , 14.2 , 13.9 , 13.6 , 13.3 and 12.8
c) The order: 86.28, 86.23, 86.19 and 86.17

11. a) 13.15 b) 0.09

12. Left to the pupil.

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Exercise 4

1. a) 0.798 b) 9.893 c) 5.255
   d) 100 e) 10.759 f) 303.437
   g) 116.702 h) 3437.828 i) 604.135

2. a) 4.3 b) 21.9 c) 19.55
   d) 1.305 e) 15.65 f) 84.41
   g) 10.35 h) 0.325

3. a) > b) < c) > d) <
   From e) to f) are left to the pupil.

4. a) 12.6 b) 60.038
   c) , d) and e) are left to the pupil.

5. a) 48.52 b) 65.24 c) 60.78 d) 52.15
   e) 33.46 f) 21.292 g) 45.21 h) 30.2

6. a) 8.625 b) 13.5 c) 41.245 d) 5.407

7. a) 117.43 b) 48 c) 136.475
   d) 269.015 e) 25.777 f) 533.315
   g) 6

8. a)

		9	7	.	4	8
+		4	3	.	[4]	[5]
	[1]	[4]	[0]	.	9	3

b)

	8	3	.	5	7	[0]
−	[5]	[8]	.	7	3	4
	2	4	.	[8]	[3]	[6]

c)

	1	8	3	.	7	5
+	[1]	9	8	.	[1]	[3]
	3	[8]	[1]	.	8	8

d)

	9	8	1	.	3	2	3
−	1	7	2	.	[3]	[5]	7
	8	[0]	[8]	.	9	6	[6]

e) and f) are left to the pupil.

9. a) 7.8 b) 89.2 c) 40.8 d) 17.8
   e) 0.345 f) 4.94 g) 0.67 h) 0.9

10. a) 85.74 b) 2.47 c) 42.819
    d) 4.57 e) 3.25
    f) , g) are left to the pupil.

11. The difference = 980 – 425
    = P.T. 555
    = 555 ÷ 100 = L.E. 5.55

12. The total cost
    = 7950.75 + 5200.25 = L.E. 131510.775
    Money left = 15000 - 13150.775 = L.E. 1849.225

13. P.T. 840 ÷ 100 = L.E. 8.4
    The total cost = 9.75 + 8.4 = L.E. 18.15
    The money left = 35 – 18.15 = L.E. 16.85

14. The total cost
    = 99.8 + 45.75 + 70.25 = L.E. 215.8
    Yes, she can.
    Because she has enough money.

15. a) The needed cloth = 1.75 + 1.50 = 3.25 metres.
    Then the man will need another piece of cloth.
    Because 3.25 > 3
    b) The length of the piece = 3.25 - 3 = 0.25 metre.

Exercise 5

1. a) , b) are left to the pupil.
   c) 172000 d) 2180 e) 5400
   The drawn is left to the pupil.

2. a) 510 b) 1200 c) 13300 d) 230
   From e) to h) are left to the pupil.

3. a) 300 b) 17900 c) 73100 d) 990900
   (e, f, g, h) are left to the pupil.

4. a) 216000 b) 5000 c) 57000 d) 1000
   From e) to h) are left to the pupil.

RaNia Sayed

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5. a) 70 000 b) 150 000
c) 70 000 d) 240 000
e), f) are left to the pupil.

6. a) 634907 ≃ 634910 b) 73105 ≃ 73110
c) 59951.5 ≃ 60000 d) 34737.9 ≃ 30000
e) 6.64 ≃ 6.6

7. Left to the pupil.

8. a) 654 b) 88500 c) 24999
d, e) are left to the pupil.

9. a) 72349 b) 236501
c) The two whole numbers are 550 and 649.
(There are more solutions.)

10. a) 1000 b) 10000 c) 100
d) 5678 e) 38783

11. a) 3 5 [1] 7 ≃ 3 [5] 2 [0]
b) 9 [8] 7 [4] ≃ [9] 8 7 [0]
(3, 1 2, 0)
c) 60 [0] 9 [0] . 54 ≃ [6] [0] 1 [0] [0]
(any digit)
d) 2 [3] [2] 75.8 ≃ [2] 3 [0] [0] [0]
(0 4, 1 3)
e) 76 [5] 435 ≃ 77 [0] [0] [0] [0]
(6 7 8 9)

Exercise 6

1. a) number line from 25 to 26, with 25.4 marked
25.4 ≃ 25
b) number line from 13.40 to 13.50, with 13.48 marked
13.48 ≃ 13.5
c) number line from 67.1 to 67.2, with 67.15 marked
67.15 ≃ 67.2
From d) to h) are left to the pupil.

2. a) 296.00 b) 13.8 c) 90.1
d) 170.6 e) 44
From f) to h) are left to the pupil.

3. a) 18 b) 16 c) 13
d) 12 e) 457
From f) to h) are left to the pupil.

4. a) 10 b) 54 c) 624
d) 7 e) 967 f) 205

5. a) 13.6 b) 269 c) 83.9
d) 90.1 e) 502.4 f) 449.8

6. a) 125 minutes = $\frac{125}{60}$ hours
$= 2\frac{5}{60} = 2\frac{1}{12} \simeq 2$ hours
b) 125 + 45 + 30 = 200 minutes.
$= \frac{200}{60}$ hours $= 3\frac{20}{60} = 3\frac{1}{3} \simeq 3$ hours

7. Left to the pupil.

8. 7825 metres = 7825 ÷ 1000 kilometres
= 7.825 ≃ 8 kilometres

9. a) 57 days ÷ 7 = $8\frac{1}{7} \simeq 8$ weeks
b) 12456 dm = 12456 ÷ 10000 = 1.2456 km ≃ 1 km.
c) 65475 m = 65475 ÷ 1000 = 65.475 ≃ 65 km
e) L.E. 78.9 ≃ L.E. 79
f) P.T. 456 = 456 ÷ 100 = L.E. 4.56 ≃ L.E. 5
g) 5 hours and 15 minutes $=5\frac{15}{60} = 5\frac{1}{4}$ hours. ≃ 5hours
d, h are left to the pupil.

10. Left to the pupil.

11. a) 12313 ≃ 12300 b) 6865391 ≃ 6865000
c) 72.48 ≃ 72 d) 83.25 ≃ 83.3
e) 3.5 ≃ 4. f) 96.85 ≃ 96.9

12. a) 6273.5 ≃ 6300 to the nearest hundred not 6270
b) The number has thousand place only but the result has ten thousand place.
c) The result = 5555 ≃ 5560 to the nearest ten not 5550
d) 444.4 ≃ 400 not 440

13. a) 23.58 or 23.85 b) 83.25 c) 8235 or 8325
d) 8523 or 8532 e) 28.35 f) 235.8 or 238.5

14. Left to the pupil.

15. a) 543.7 b) 5.437
c) 4.573 d) 34.57 e) 7543

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Answers of selected problems from previous final exams on Unit 1

Left to the pupil.

Test on Unit 1

Left to the pupil.



Geometry

Exercise 1

1. Left to the pupil.

2. a)
   b)

3. a) $\overline{KM}$ b) $\overline{BC}$ c) ∠L d) AB = 5 cm

4. a) $\overline{XZ}$, 7 cm b) $\overline{YZ}$
   c) ∠Z d) m (∠Y) = 120°

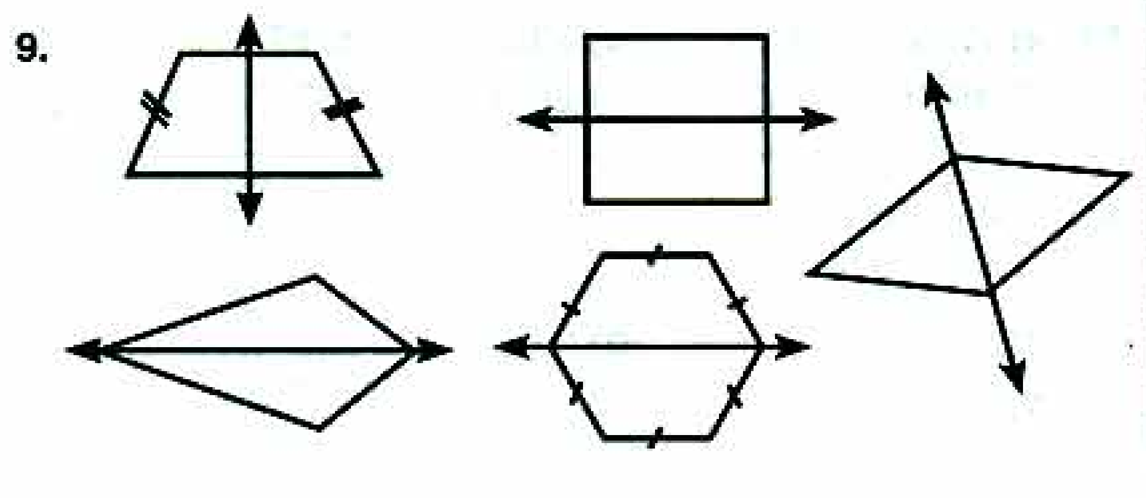
5. a) 40 b) 50 c) 7 cm d) 4 cm

6. a) ∠X b) $\overline{XY}$

7. a) equal in length, equal in measure
   b) congruent
   c) the side length of the other
   d) equal to

8. a) ✗ b) ✗ c) ✓
   d) ✓ e) ✓ f) ✓
   g) ✗ h) ✗

9.



10. a) 1) m (∠ c) = 85°
    2) m (∠ BAC) = 180° – (50° + 85°) = 45°
    b) 4 cm , BC = 3 cm
    c) The perimeter = 3 + 3 + 4 + 4 = 14 cm.

11. a) The rhombus has one right angle and the length of side of the square equals the length of side of the rhombus.
    b) Their radii are equal in length.
    c) When the length of side of the first equals the length of side of the second.

Exercise 2

1. Left to the student.

2. a) 1 b) 3 c) 0 d) 4
   e) 0 f) 1 g) 1 h) 0
   The drawing is left to the pupil.

3. a) not sym. b) sym. c) sym.
   d) sym. e) not sym. f) not sym.
   g) sym. h) not sym.
   The drawing is left to the pupil.

4. zero → 1 →
   2 → 3 →
   4 →

5. Left to the pupil.

6. a) 1 b) congruent c) 2
   d) 4 e) 2 f) 1

7. a) ✗ b) ✗ c) ✗ d) ✓
   e) ✓ f) ✗ g) ✓

8. a) 3 b) 4 c) 2 d) zero e) 2
   f) 6 g) 0 h) 5 i) 1

9. a) ABCD b) $\overline{XD}$, $\overline{YC}$ c) $\overline{DC}$ d) DCYX

10. a) ∠ D b) ∠ E
    c) BY = 5 cm d) 6 + 5 + 5 + 6 + 6 = 28 cm

11. Left to the pupil.

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موقع ذاكرولى التعليمى
الصف الرابع الابتدائى

Exercise 3

1. a) △ b) ▭ c) ⬠
d) ⇦ e) ⇧ f) ▭
g) ☆ h) ☆

2. a) □□○ b) ♡☆ c) 1.4
d) $\frac{1}{48}$ e) ⊟ ◫
f) △ △ △ g) + — — h) X ÷

3. a) 3.33, 2.22 b) 15.6 , 15.8
c) abbbbb, abbbbbb d) 98.2 , 97.6
e) abcde, abcdef f) 3.8 , 4
g) + ××,+××× h) 8.4 , 8

4. a) repeating ○▭ b) repeating
c) repeating d) (× $\frac{1}{3}$), $\frac{1}{81}$
e) (by subtracting 0.5), 98

5. 6 , 7 are left to the pupil.

Answers of selected problems from previous final exams on Unit 2

Left to the pupil.

Test on Unit 2

Left to the pupil.

UNIT 3 Measurement

Exercise 1

1. a) $\frac{1}{8}$ L b) 1 litre c) 2 mL
d) 8 litres e) $\frac{1}{2}$ litre f) 150 litres
g) 200 mL h) 8 L

2. a) mL b) mL c) L d) L

3. a) 250 mL b) 15 litres c) 2000 mL d) 10 cm

4. 1) 8.5 mL 2) 6500 mL
From number 3) to number 8) are left to the pupil.

5. a) > b) < c) = d) >
e) = f) > g) < h) >

6. a) The tank of capacity 50 L is the greater.
b) The aquarium with capacity 25 L is the greater.
c) , d) are left to the pupil.

7. a) 7000 cm^3, 9750 mL, 10 litres, 12 $\frac{1}{2}$ litres.
b) 2 cm^3, 450 cm^3, $\frac{1}{2}$ L , 1750 mL.
c) 3 $\frac{3}{4}$ litres, 4500 cm^3, 5 dm^3, 6000 mL.

8. a) 9000 mL, 8.75 L, 6500 mL, 5 L.
b) 2 L, 1250 mL, $\frac{3}{4}$ litre, 350 mL.
c) 9500 mL, 9 litres, 8.9 litres, 7500 cm^3.

9. a) 2275 ml = 2275 cm^3 b) 75 000
c) 1 $\frac{3}{4}$ d) 650 e) 9

10. a) ✗ b) ✗ c) ✓ d) ✓ e) ✓ f) ✓

11. 4 bottles of the second type hold = 4 × 190 = 760 mL.
The rest = 1000 - 760 = 240 mL
The number of bottles we need from the first type = 240 ÷ 60 = 4 bottles.

Exercise 2

1. a) 2 tons b) 70 kg
c) 50 gm d) 150 kg e) 10 gm
f), g) and h) are left to the pupil.

2. a) b) c) d)
5 gm 500 kg 5 tons 5000 gm

3. a) 40 kg b) 2 kg c) 10 tons
d) 15 gm e) 2 tons f) 95 kilograms

4. a) 1000 kg b) 0.001 ton c) 1000 gm
d) 0.001 kg e) 70000 gm f) 0.001 ton
g) 10000 kg h) 0.06 kg
From i) to n) are left to the pupil.

5. a) = b) > c) < d) < e) < f) >
g) and h) are left to the pupil.

6. a) 4710 kg, 4.7 tons, 4469000 gm.
b) 205 kg, 204000 gm, $\frac{1}{5}$ ton.
c) 9 tons, 8750 kg, 870 000 gm.


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7. The cost of meat in one week = 1.5 × 140 = 210 pounds.

8. What the man paid = 40 × 550 = L.E 22000.

9. The cost of fish in a week = 2 × 28 = L.E. 56
   The cost of fish in a month = 56 × 4 = L.E. 224

10. a) The price of one ton = 1000 × 12 = 12000 pounds.
    b) The money paid for the iron = 12000 × 8 = 96000 pounds.

11. Price of bananas = 5 × 10 = 50 pounds.
    Price of apples = 15 × 2 = 30 pounds.
    Price of oranges = 6 × 8 = 48 pounds.
    Price of guavas = 4 × 9 = 36 pounds.
    What this family paid = 50 + 30 + 48 + 36 = 164 pounds for fruits.

12. 9 kgs.

Exercise 3

1. a) $1\frac{1}{2}$ hours b) 5 minutes c) $\frac{1}{3}$ hour
   d) 2 hours e) 2 hours f) 500 minutes
   g) $\frac{1}{2}$ day h) $\frac{1}{2}$ hour

2. a) 4 hours, 300 minutes, 19000 seconds.
   b) 3600 seconds, $\frac{1}{3}$ day, 1440 minutes.
   c) 10 hours, $\frac{1}{2}$ day, 4800 minutes.

3. a) 18 hours, 1020 minutes, $\frac{2}{3}$ day.
   b) 3000 minutes , 5 hours , 1800 seconds.
   c) 3600 minutes, $1\frac{1}{2}$ days, 30 hours.

4. a) < b) > c) < d) < e) <
   f) = g) =

5. Left to the pupil.

6.

	2012	11	15
−	1987	4	3
	25	7	12

Her age will be 25 years, 7 months, and 12 days.

7.

hr		min		hr		min
8	:	30		7	:	90
− 6	:	45	→	− 6	:	45
				1	:	45

The time is 1 hour and 45 minutes.

8. 90 + 15 + 5 = 110 minutes = 1 hour and 50 minutes.

hr		min
3	:	00
+ 1	:	50
4	:	50

The match ended at 4 : 50 p.m.

9.

hr		min
3	:	40
− 3	:	10
0	:	30

minutes

10. Left to the pupil.

11. His salary in a day = 8 x 20 = 160 pounds.
    His salary in a week = 160 x 5 = 800 pounds.
    His salary in 7 weeks = 800x 7 = 5600 pounds.

Answers of selected problems from previous final exams on Unit 3

Left to the pupil.

Test on Unit 3

Left to the pupil.

UNIT 4 Statistics and Probability

Exercise 1

1. a) Noticing, experimenting, field study.
   b) bar graphs, double bar graph, histogram

2.

City	Cairo	Alex	Tanta	Sohag	Luxor
Temp.	25	20	15	30	35

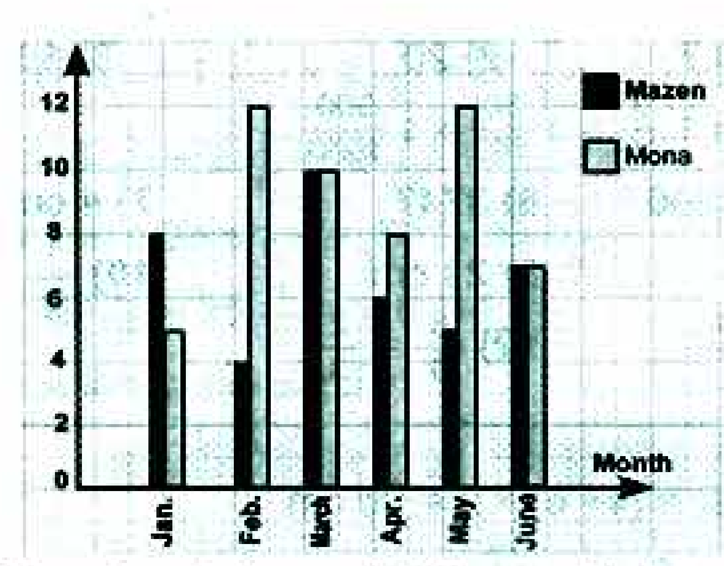
3. a) grade one. b) grade 5 c) Left to the pupil.
   d)

Grade	1	2	3	4	5	6
No. of pupils	90	70	80	60	40	50

4. Left to the pupil.

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5. a)



b) March and June c) February d) January

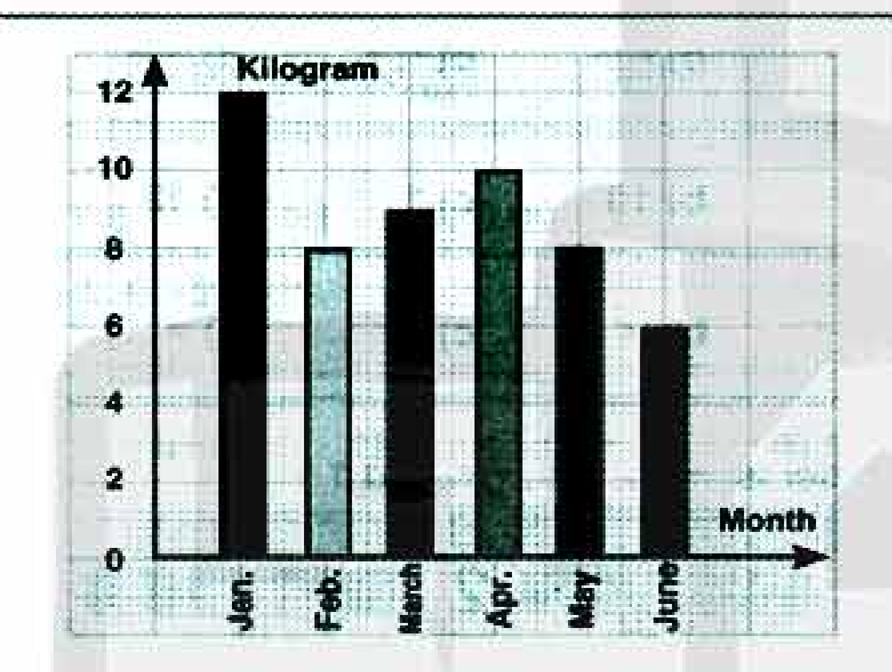
6. Left to the pupil.

7.

No. of kg	1	2	3	4	5	6	7	8
Tallies	II	𝍸 II	𝍸 II	𝍸 I	𝍸 III	𝍸 I	II	II
No. of families	2	7	7	6	8	6	2	2

The drawing is left to the pupil.

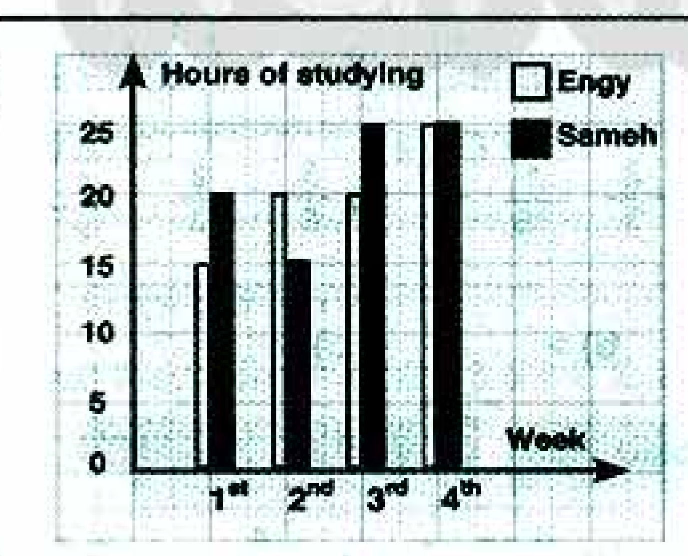
8.



a) 12 kilograms b) January

9. Left to the pupil.

10. a)

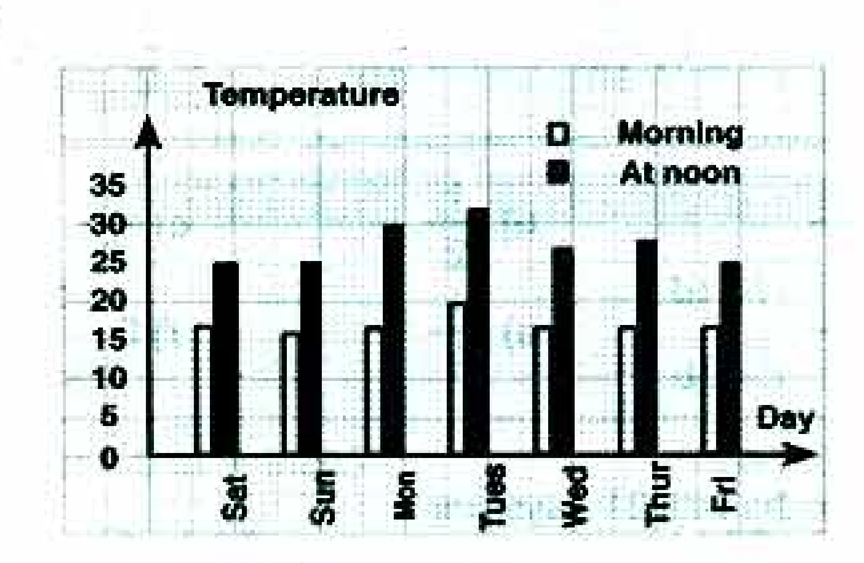


b) The total hours of studying for Engy

= 15 + 20 + 20 + 25

= 80 hours.

11. a)



b) light clothes

12. , 13. Left to the pupil.

Exercise 2

1. 1) 1 2) 0 3) between 0 and 1

4) $\frac{1}{2}$ 5) 0 6) $\frac{1}{3}$

7,8 are left to the pupil.

2. 1) $\frac{1}{26}$ 2) $\frac{6}{11}$

3) $\frac{2}{7}$ 4) certain 5) $\frac{5}{9}$

6) $\frac{1}{2}$ 7) $\frac{2}{5}$ 8) $\frac{1}{5}$

3. a) $\frac{4}{18} = \frac{2}{9}$ b) $\frac{6}{18} = \frac{1}{3}$ c) $\frac{8}{18} = \frac{4}{9}$

d) $\frac{14}{18} = \frac{7}{9}$ e) $\frac{10}{18} = \frac{5}{9}$

4. a) $P(r) = \frac{8}{24} = \frac{1}{3}$ b) $P(g) = \frac{4}{24} = \frac{1}{6}$

c) $p(b) = 0$ d) $P(r \text{ or } w) = \frac{13}{24}$

e) $\frac{15}{24} = \frac{5}{8}$ f) $\frac{17}{24}$

5. a) $\frac{5}{6}$ b) $\frac{1}{6}$ c) $\frac{1}{6}$

d) $\frac{2}{6} = \frac{1}{3}$ e) $\frac{2}{6} = \frac{1}{3}$ f) 0

6. a) $\frac{2}{16} = \frac{1}{8}$ b) $\frac{8}{16} = \frac{1}{2}$

c) $\frac{10}{16} = \frac{5}{8}$ d) $\frac{6}{16} = \frac{3}{8}$ e) $\frac{9}{16}$

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7. a) $\frac{3}{5}$ b) $\frac{3}{10}$ c) $\frac{3}{10}$ d) $\frac{1}{2}$ e) $\frac{1}{2}$

8. a) $\frac{1}{2}$ b) $\frac{1}{2}$ c) $\frac{1}{3}$
d) $\frac{1}{6}$ e) $\frac{1}{3}$ f) 0

9. a) months with 31 days are
(January, March, May, July, August, October, December)
$P = \frac{7}{12}$
b) The months ending with the letter(y) are
(January, February, May, July) $P = \frac{4}{12} = \frac{1}{3}$
c) The months ending with the letter (r) are
(September – October – November – December)
$P = \frac{4}{12} = \frac{1}{3}$

10. The days of a week are
(Sat., Sun., Mon., Tue., Wed., Thu., Fri.)
a) $P = \frac{1}{7}$ b) $p = \frac{2}{7}$ c) $P = \frac{2}{7}$

11. a) $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ b) = P (yellow) = $\frac{5}{12}$

Answers of selected problems from previous final exams on Unit 4

Left to the pupil.

Test on Unit 4

Left to the pupil.

Basic Cumulative Skills on Unit (4) (TIMSS)

1. 1) 13 > 12.99 2) 0
3) Twenty three and seven hundred one thousandths
4) 700 5) 24 6) 2
7) 4 8) 6 9) 8
10) 36 cm^2 11) gm 12) 0.9 m
13) 4 tons 14) 3 hours 15 minutes
15) 30 cm 16) 5
17) a) impossible b) possible
c) certain

2. 1) 5142000.7 2) 20 3) 10
4) because $1\frac{3}{10} = 1\frac{30}{100} = 1\frac{300}{1000}$
5) 5499 , 4500 6) 3747 7) 4 cm
8) 7 cm 9) 21 cm 10) $\frac{1}{3}$
11) $\frac{15}{35} = \frac{3}{7}$ 12) $\frac{6}{9} = \frac{2}{3}$

3. 1) Perimeter = (4+ 6) × 2 = 20 cm
Area = 4 × 6 = 24 cm^2
2) 16 units of length.
3) 1 × 60 × 60 = 3600 seconds
4) 1× 7 × 24 = 168 hours
5) The order is: 2550 m, 3 km, 4750 m and1 million cm

Worksheets on Unit (1)

Worksheet 1 till lesson (1A)

1. a) $\frac{3}{5}$ b) $\frac{7}{8}$ c) $\frac{1}{6}$ d) $\frac{1}{4}$ e) $\frac{1}{2}$

2. a) 8 b) 10 c) 1 d) 12 e) $\frac{1}{3}$

3. a) > b) < c) > d) =

4. The order is: $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$ and 1

Worksheet 2 till lesson (1B)

1. a) 20 b) $\frac{22}{7}$ c) $\frac{3}{4}$ d) $4\frac{1}{5}$

2. a) $\frac{7}{2}$ b) $\frac{40}{11}$ c) $\frac{32}{5}$
d) $6\frac{1}{10}$ e) $7\frac{1}{5}$ f) $3\frac{3}{7}$

3. a) $\frac{4}{5}$, $\frac{11}{15}$, $\frac{2}{3}$, $\frac{1}{15}$ b) $\frac{5}{6}$, $\frac{2}{3}$, $\frac{1}{2}$, $\frac{1}{4}$

4. a) = b) > c) > d) >

Worksheet 3 till lesson (1C)

1. a) $\frac{7}{10}$ b) $\frac{1}{8}$ c) $\frac{4}{5}$ d) $\frac{44}{7}$

2. a) $\frac{9}{15} + \frac{10}{15} = \frac{19}{15} = 1\frac{4}{15}$
b) $2\frac{3}{15} - \frac{10}{15} = 1\frac{18}{15} - \frac{10}{15} = 1\frac{8}{15}$
c) $6\frac{10}{35} + 3\frac{7}{35} = 9\frac{17}{35}$ d) $3\frac{10}{12} - 1\frac{9}{12} = 2\frac{1}{12}$

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

3. a) $(7\frac{2}{3} - 1\frac{1}{4}) + 2\frac{1}{6} = (7\frac{8}{12} - 1\frac{3}{12}) + 2\frac{2}{12}$
$= 6\frac{5}{12} + 2\frac{2}{12} = 8\frac{7}{12}$
b) The difference = $50 - 35\frac{1}{2}$
$= 49\frac{2}{2} - 35\frac{1}{2}$ = L.E. $14\frac{1}{2}$
c) is left to the pupil.

Worksheet 4 till lesson (2)

1. a) 0.7 , 20 b) $\frac{13}{4}$ c) $11\frac{1}{2}$
d) 0.046 e) hundredths

2. a) 1) 197.791 2) tenths
b) 1) 0.007 2) 0.7 3) 0.07 4) 70

3. $6\frac{1}{2}$, $6\frac{2}{5}$, $6\frac{1}{4}$, $5\frac{7}{10}$

Worksheet 5 till lesson (3)

1. a) $\frac{7}{3}$ b) 0.5 c) $\frac{267}{10}$ d) 0.12 e) $5\frac{1}{4}$

2. a) 1) 7.6 2) 19 3) 0.09
b) 1) 8, 9 2) 0, 1

3. a) > b) > c) < d) > e) < f) >

Worksheet 6 till lesson (4)

1. a) 4.6 b) 0.3 c) $\frac{39}{4}$ d) 0.153 e) =

2. a) 5.375 b) $7\frac{8}{100} = 7\frac{2}{25}$ c) 4.3
d) 0.07 e) 20.65

3. a) 91.682 b) 504.233 c) 48.02
d) 75.35 e) 83.5 f) 86.57

4. P.T. 475 = L.E. 4.75
What they have = 4.75 + 3.5 = L.E. 8.25

Worksheet 7 till lesson (5)

1. a) 0.6 b) 73.3 c) 9380
d) 4400 e) 7000

2. a) 0.07 b) 1000 c) 0.8
d) 428.19 e) $\frac{7}{12}$

3. a) 5680 b) 70500 c) 13000 d) 10000

4. Left to the pupil.

Worksheet 8 till lesson (6)

1. a) 0.5 b) 64
c) 4.85 d) 9.3
e) 0.2 + 0.07 + 0.003 f) $20.217 \simeq 20.2$
g) $19.08 \simeq 19$ h) $284.37 \simeq 300$

2. a) 5.25 b) 11.5 c) 0.8 d) 1.07

3. a) 790 b) 16.6 c) 10 d) 2000
e) 20 f) 3

4. 0.325 , 3.25 , 3.52 , 32.5 , 35.2

Test 1 On Unit 1

1. 1) 0.06 2) 1.75 3) >
4) = 5) 6.43 6) 0.7
7) 3.007 8) unit 9) 0.67

2. 10) 26.1 11) hundred
12) 7.739 13) hundredth

3. 14) $33.39 \simeq 33.4$ 15) $2.0819 \simeq 2$

Test 2 On Unit 1

1. 1) 354 2) $3\frac{1}{6}$ 3) 0.06
4) 4 5) 63.2 6) >
7) $\frac{237}{10}$ 8) tenth 9) 11.36

2. 10) 0.9 11) 22.8 12) 5 13) 2.65

3. 14) 533 - 95.45 = 437.55 $\simeq$ 438 pounds.
15) The order is: 0.35 , 0.53 , $3\frac{1}{2}$ and 5.4

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Worksheets on unit (2)

Worksheet 9 till lesson (1)

1. a) 3.5 b) 3.25 c) 14.45 ≃ 14.5
   d) The side length of the other e) congruent

2. a) $\overline{XY}$ b) $\overline{YZ}$ c) $\overline{XL}$ d) A e) Z

3. tenth, hundredth, thousandth, unit

4. Left to the pupil.

Worksheet 10 till lesson (2)

1. a) 10 b) 2 c) 2.87 d) $\frac{42}{5}$ e) 4

2. a) 1152 ≃ 1200 b) 4 x 9 = 36 cm
   c) 8004 d) 0.5 , 0.003 e) 1

3. Left to the pupil.

4. a) 50° b) 60° c) ZX d) $\overline{CB}$

Worksheet 11 till lesson (3)

1. a) 0.006 b) ▭ c) $2\frac{1}{4}$ d) 0.005 e) ABBB

2. a) 3.5 b) thousand
   c) 4 d) 7 e) XXXXYYYY

3. a) = b) = c) < d) < e) =

4. a) $\overline{DE}$ b) $\overline{KM}$ c) L d) M

Tests 1 · 2 On Unit 2

Left to the pupil.

Worksheets on unit (3)

Worksheet 12 till lesson (1)

1. a) 5.07 b) 7.77 c) 1
   d) 6500 e) $\frac{1}{2}$

2. a) 23.516 , 23.5 b) 2 c) $5\frac{19}{45}$
   d) 0.075 e) 90000

3. a) > b) < c) = d) < e) >

4. $\frac{1}{2}$ L , 750 mL , 1250 mL , 2 dm^3

Worksheet 13 till lesson (2)

1. a) $4\frac{1}{2}$ b) thousandths c) 13.2
   d) 2000 e) no

2. a) $\frac{22}{3}$ b) 40000 c) 3 d) 3 kg e) 2

3. a) 4 b) $1\frac{1}{4}$ c) 2

4. a) 8 b) E c) $\overline{DE}$ d) m (∠A) = 50°

Worksheet 14 till lesson (3)

1. a) 5 b) 3 c) 8 d) $\frac{1}{2}$ e) 2

2. a) 625 b) 250000 c) 180
   d) 20000 e) 1

3. a) < b) > c) = d) > e) <

4. a) 20 min, 3600 sec, $\frac{1}{2}$ day , 1 week , 72 days
   b) $\frac{1}{4}$ ton, 400000 gm , $\frac{1}{2}$ ton , 700 kg , 875 kg

5. a) 90° b) 100° c) $\overline{ED}$ d) $\overline{CF}$

Tests 1 · 2 On Unit 3

Left to the pupil

Worksheets on Unit (4)

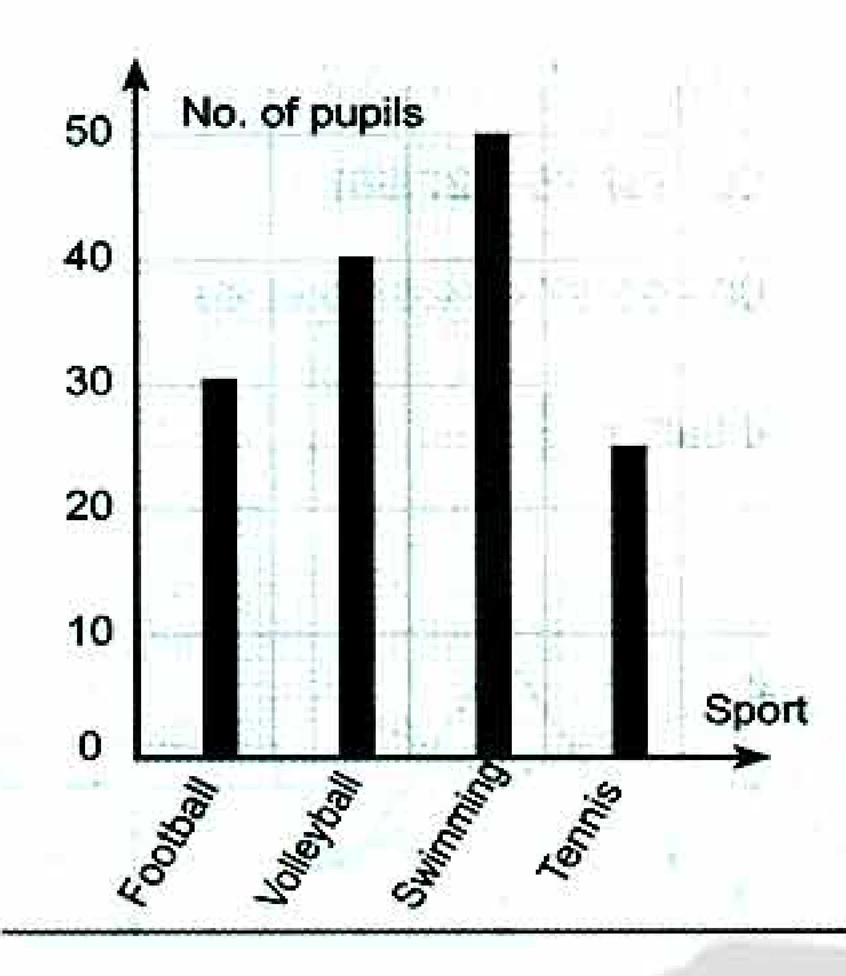
Worksheet 15 till lesson (1)

1. a) 755.32 ≃ 755 b) 54173 c) 4
   d) 1 e) X

2. a) 10 b) 2 c) $9\frac{3}{4}$
   d) 2.87 e) hundredths

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3.



4. Left to the pupil.

Worksheet 16 till lesson (2)

1. a) $\frac{3}{8}$ b) 1 c) 0 d) 0 e) $\frac{1}{2}$

2. a) + x x x x b) 422.5 c) 7.77
   d) 711.6 e) 1000

3. a) $\frac{7}{15}$ b) $\frac{5}{15} = \frac{1}{3}$ c) $\frac{12}{15} = \frac{4}{5}$

4.

Months	Jan.	Feb.	Mar.	Apr.	May
Ahmed	150	150	200	280	300
Beshoy	100	200	200	250	300

a) March b) Left to the pupil.

Tests 1, 2 On Unit 4

Left to the pupil.

Half-way Exams

Exam 1

1. 1) hundred 2) 158.7 3) 0.003
   4) 5.72 5) 6 6) >
   7) < 8) 6 9) 7.77

2. 10) 76.93 ≃ 80 11) 40.085 ≃ 40
   12) 0.456 ≃ 0 13) 720

3. 14) What is left = 98.75 - 75.5 = 23.25 pounds.
   15) The order is: 6.11 , 6 $\frac{1}{4}$, 6 $\frac{1}{2}$ and 6.63

Exam 2

1. 1) 3.86 2) 96.058 3) >
   4) = 5) 41.48 6) =
   7) > 8) < 9) 0.8

2. 10) 901.6 11) 4.325 ≃ 4
   12) 18.89 13) 205

3. 14) What he paid = 9.25 + 83.5 = L.E 92.75 ≃ L.E. 93
   15) The order is: 5.08 , 5.8 , 8.5 , 58 and 85

Exam 3

Left to the pupil.

Pre-exam Final Revision

1. a) 60.038 b) 0.07 c) 0.004
   d) 19.043 e) 5 km f) 57000
   g) 22767 ≃ 23 thousands. h) 77500
   i) 42.8 j) 4 $\frac{3}{4}$ litres

2. From a) to g) are left to the pupil.
   h) congruent, symmetry
   i) 98.2 , 97.6 j) 4000
   k) 8, 480 l) 422.5 ≃ 400

3. a) = b) > c) = d) <
   e) = f) > g) = h) <
   i) < j) < k) = l) <
   m) > n) = o) > p) <

4. a) ✓ b) ✓ c) ✗ d) ✓ e) ✗
   f) ✗ g) ✗ h) ✗ i) ✓

5. a) 765000 b) 1) 497.75 2) 513245
   c) 4076916 d) 0.25 x 100 + 15 + 10 = 4

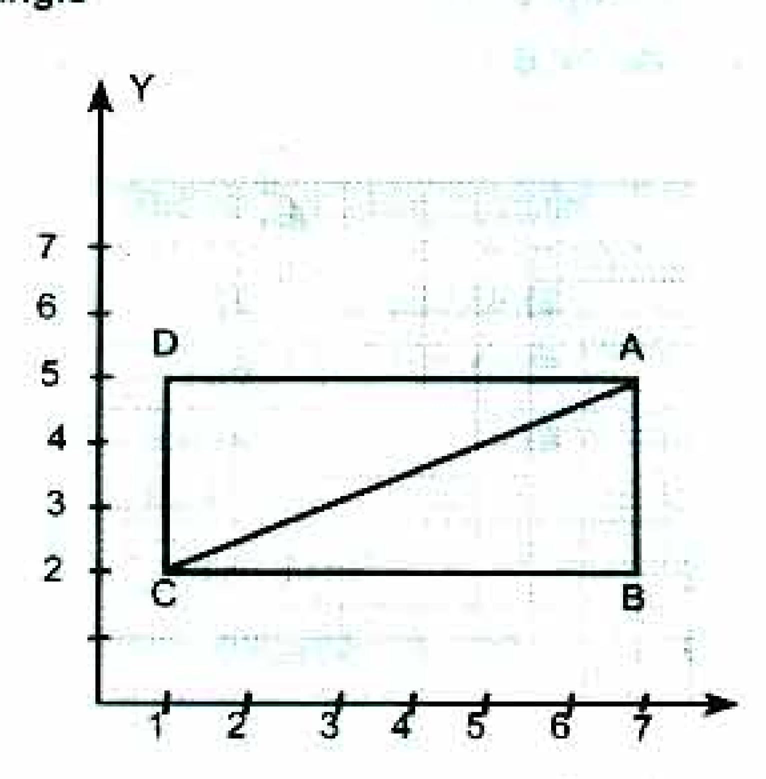
6. a) square b) ⊥ , intersecting
   c), d) are left to the pupil.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى




7. a) rectangle

b)



c) 2

d) The perimeter = 2 (4 + 3)

= 2 x 7 = 14 units

The area = 4 x 3 = 12 square units

8. a) square b) 4 c) YZ = ZL = LX = , ≡ or ⊥

9. a) $\frac{6}{10} = \frac{3}{5}$ b) Left to the pupil.

10. a) Left to the pupil. b) 1 - 0.3 = 0.7

Model Tests from School Book

Model 1

1. 1) 0.07 2) 1 3) $3\frac{2}{5}$
4) congruent 5) 0.645 6) <
7) 4 8) $\frac{1}{2}$ 9) 3500
10) 6500 11) noticing 12) 3.05
13) 32.79 14) 3 15) 180
16) 0.78

2. 17) 1 18) 8000 19) $\frac{1}{2}$ 20) 2
21) 1.1 22) △□□□□

3. 23) 49.729 ≃ 50

24) $8\frac{1}{4}$ L = 8250 mL , 5 L = 5000 mL

The order is :

9 000 ml, $8\frac{1}{4}$ L , 6500 ml and 5 litres

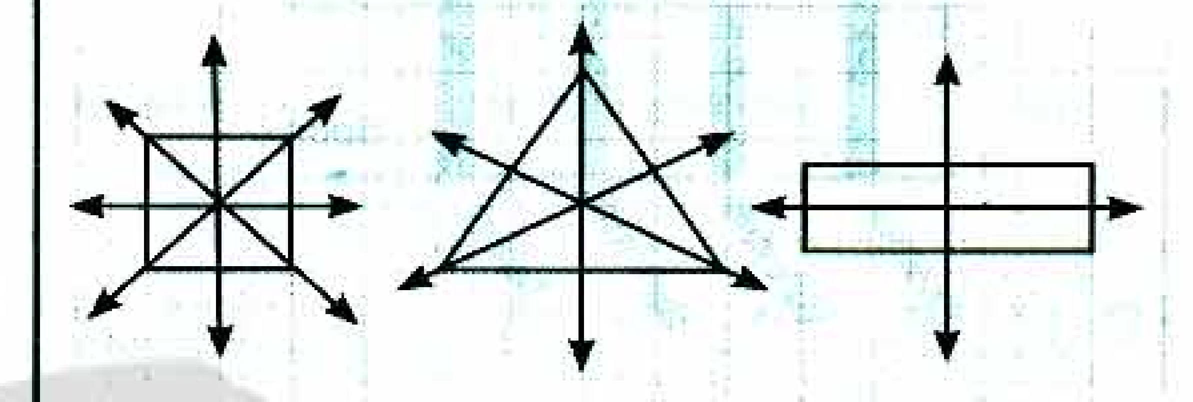
25) The remainder with her

= 100 - (37.75 + 27.58)

= 100 - 65.33 = 34.67 pounds

26) (red ball) = $\frac{3}{5}$

27)



28) left to the pupil.

Model 2

1. 1) 1 2) 9000 3) 4
4) 1 5) 72 6) 0.08
7) 0.375 8) $\frac{1}{2}$ 9) >
10) 1 11) a square of side length 5 cm
12) 567.5 13) $\frac{3}{5}$ 14) 75
15) $\frac{1}{2}$ 16) 1

2. 17) $\frac{4}{8} - \frac{1}{4} = \frac{1}{2} - \frac{1}{4} = \frac{1}{4}$

18) 3500 19) 0

20) $4\frac{14}{100} = 4.14$

21) 7.005

22) the length and width of the 1st rectangle is equal to the length and width of the 2nd rectangle.

3. 23) The order is: 5.08 , 5.8 , 8.05 , 8.5 and 58

24) 46.235 ≃ 46.2

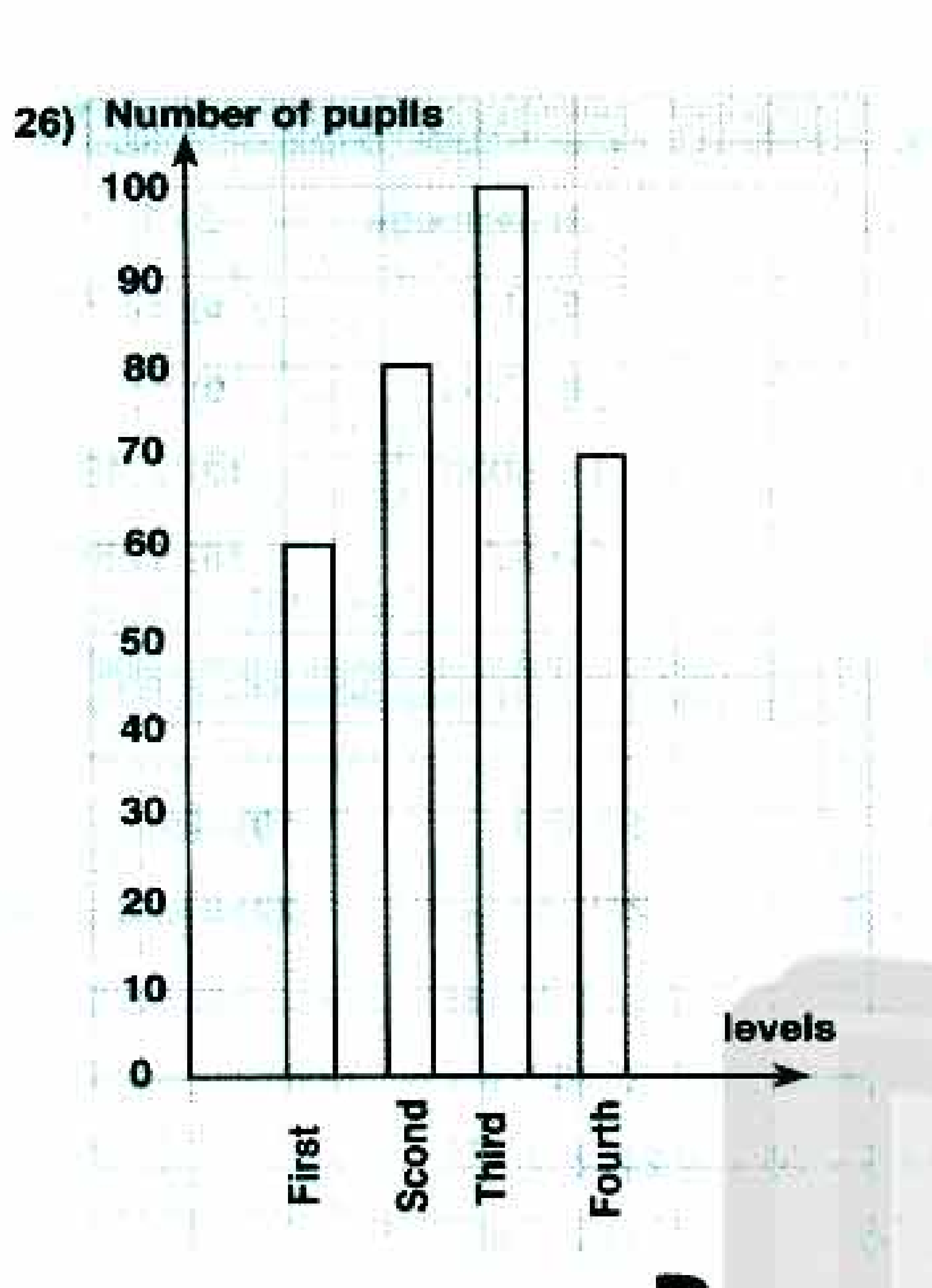
25) Left to the pupil.

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26)

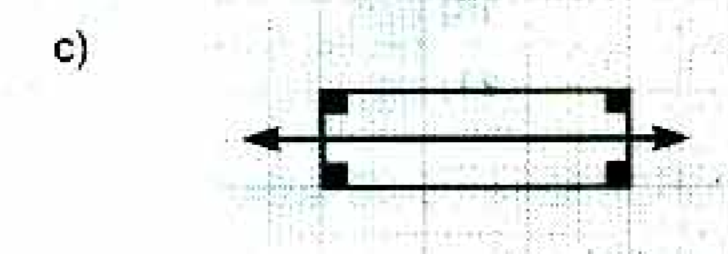


Model 3

1. 1) 0.046 2) 500 3) =
4) 100 5) 4 6) 9.7
7) 0 8) 0.04 9) 1
10) $\frac{22}{3}$ 11) $\frac{1}{2}$ 12) 0.735
13) 658 14) 7.439
15) 7500 16) $\frac{3}{5}$

2. 17) The length and width of the 1st rectangle are equal to the length and width of the 2nd rectangle.
18) 1 19) $\frac{1}{2}$ 20) 45
21) $\frac{3}{6} = \frac{1}{2}$ 22) $4.03 \simeq 4$

3. 23) 18.11
24) The remainder with him
= 35 - (12.75 + 17.25)
= 35 - 30 = 5 pounds
25) a) rectangle b) two
c)



26) left to the pupil.

Answers of Model Tests for the Special needs

Left to the pupil.

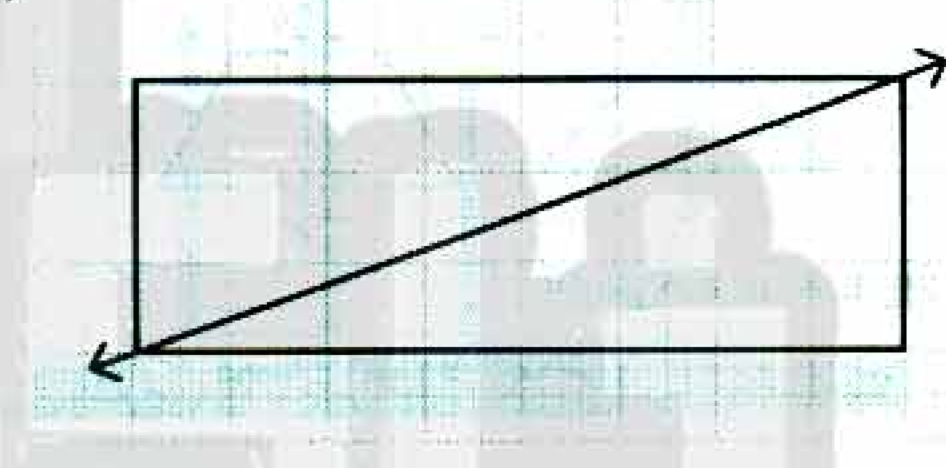
Some School Examinations from Different Governorates

1 Cairo Governorate - Mathematics supervision - Distinguished lang. School

1. 1) 7650 2) > 3) $3\frac{2}{5}$
4) 1 5) 4 6) 100
7) $\frac{1}{2}$ 8) 7.6

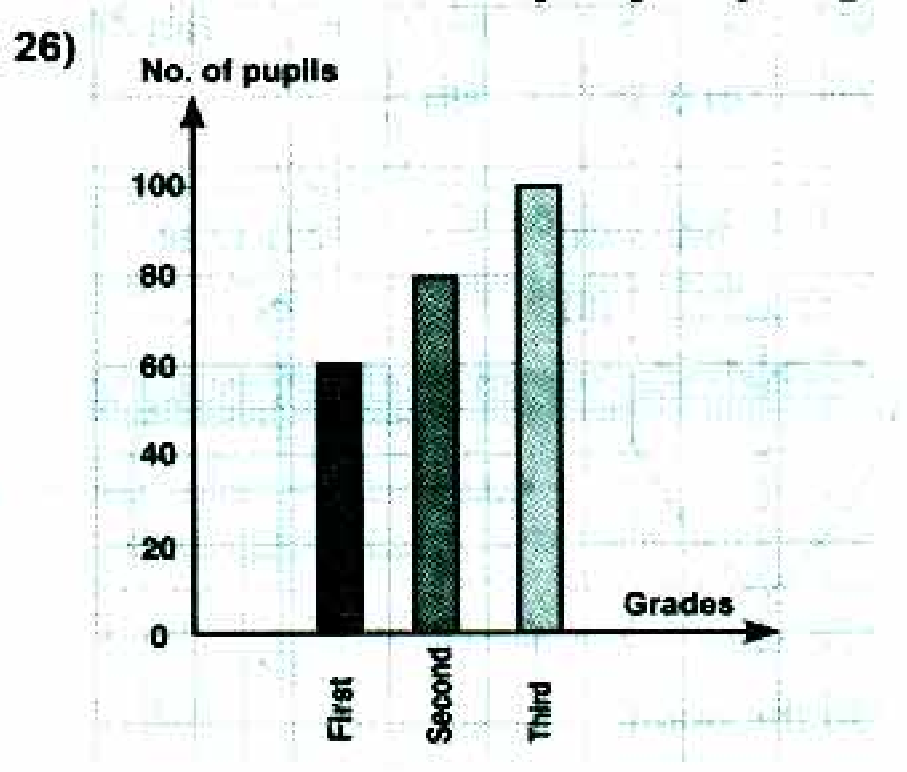
2. 9) 240 10) 0.4 11) $\frac{1}{2}$
12) 10 13) 1.35
14) their corresponding sides are equal in length.
15) a) rectangle b) two
c)





3. 16) tenth 17) = 18) XY
19) 0.39 20) 1 21) 3500
22) congruent 23) $\frac{1}{6}$

4. 24) $54.85 \simeq 55$ 25) $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$
26)



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

2 Cairo Governorate - Helwan Educational Zone - El Nahda Official L. school

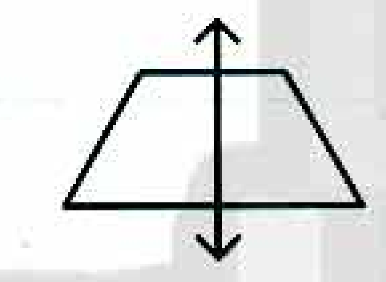
1. 1) 0.9 2) 1 3) $\frac{3}{2}$
4) congruent 5) 1 6) >
7) 4 8) $\frac{1}{2}$

2. 9) 6000 10) 2900 11) $\frac{1}{2}$
12) 3.07 13) 48.96 14) 3
15) 24 16) $\frac{5}{9}$

3. 17) zero 18) 4.398 ≃ 4.4 19) 0.4
20) 9 21) zero 22) 8000

4. 23) 5.08 , 5.8 , 8.05 , 8.5 , 58
24) a) $\frac{3}{10}$ b) $\frac{5}{10} = \frac{1}{2}$

5. 25)



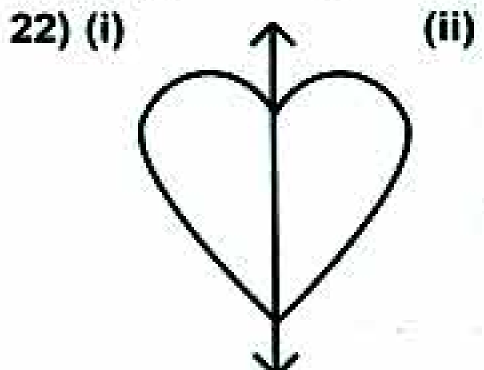
26) Left to the pupil.

3 Cairo Governorate - Maadi Directorate - Manart Official - L.School

1. 1) 0.4 2) 5.83 3) $5\frac{5}{6}$
4) > 5) $\frac{1}{2}$ 6) 24
7) 3 8) $\frac{1}{6}$ 9) 1250
10) $\frac{3}{4}$ 11) 1000 12) $1\frac{2}{3}$
13) $\frac{7}{10}$ 14) 9

2. 15) 60, 50 16) (i) $\overline{XY}$ (ii) 7 cm (iii) 40°
17) 48.7 18) 0.3 19) $\frac{17}{20}$

3. 20) (i) $\frac{3}{5}$ (ii) zero 21) 1728
22) (i) (ii)



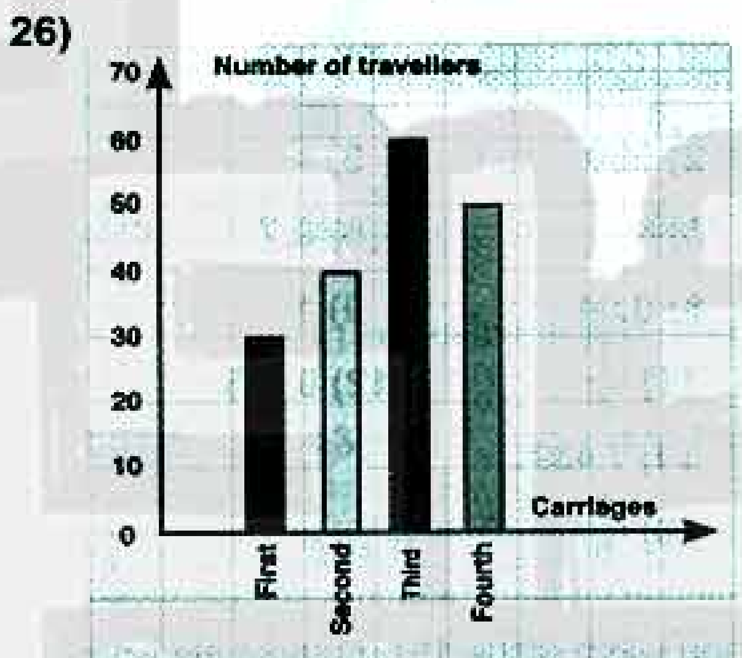
23) Left to the pupil.

4 Cairo Governorate -Al-Shrouk Directorate

1. 1) 2.05 2) kilometre 3) 1
4) 0.3 5) 0.4 6) 32.79
7) $\frac{5}{8}$ 8) 0.645 9) $\frac{22}{4}$
10) 4 11) 5000 12) 7.439
13) ◺ 14) XZ 15) 12800
16) $\frac{1}{6}$

2. 17) 48 18) 6.6 19) sides
20) 2.857 21) $\frac{1}{2}$ 22) 94.48 ≃ 94

3. 23) 6.6 , 6.68 , 6.7 , 6.86
24) 98.9 - 76.7 = 22.2
25) a) $\overline{YZ}$ b) ∠B
26)



5 Giza Governorate - El- Haram Directorate - Fadl - L.School

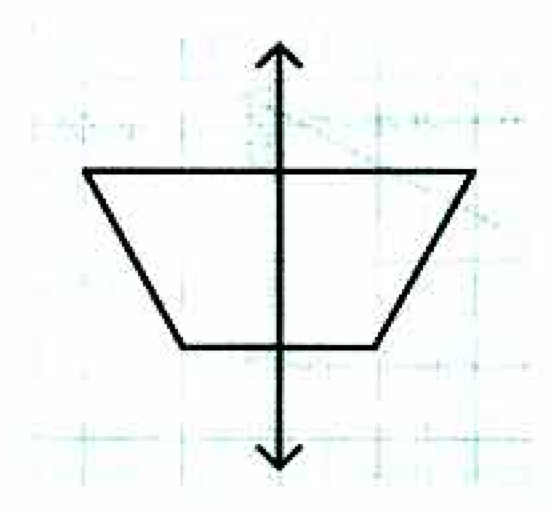
1. 1) 98.7 2) $\frac{1}{2}$ 3) >
4) 7.6 5) 7.77 6) 141
7) 0.8 8) 10 9) 2
10) $3\frac{2}{5}$ 11) 134.3 12) 0.4
13) > 14) half 15) congruent
16) 500

2. 17) $\frac{5}{8}$ 18) zero 19) $1\frac{1}{3}$
20) 4 21) $\frac{7}{10}$ 22) 45

3. 23) 8.5, 8.05, 5.8, 5.08
24) 96.80 + 62.31 = 159.11 ≃ 200

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى
Gem موقع ذاكرولى التعليمى الصف الرابع الابتدائى

25)



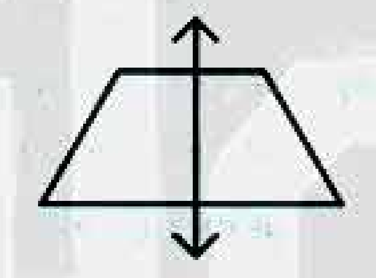
26) Left to the pupil.

6 Giza Governorate - Al - Agoza Directroate

1. 1) 3.17 2) 500 3) hundred
4) 2 5) < 6) not equal
7) 0.625 8) 7.6 9) 158.7
10) 4500 11) 45.1
12) observation 13) 0.04 14) 1
15) $\frac{1}{2}$ 16) 1

2. 17) 1000 18) 4000 19) 3
20) 1 21) 4 22) $\frac{1}{2}$

3. 23) 94.48 $\simeq$ 94
24) 98.50 - 76.75 = L.E 21.75
25) The symmetric figure is



26) Left to the pupil.

7 Giza Governorate - Al-Haram Directorate

1. 1) 1 2) 0.046 3) tenths
4) 42.819 5) 0 6) <
7) 3500 8) > 9) 500
10) 72 11) 240 12) 3.772
13) $\frac{1}{2}$ 14) 658 15) 1
16) 0.04

2. 17) 4 18) 1 19) 16
20) sides, angles 21) 5.68 $\simeq$ 6 22) $1\frac{1}{10}$

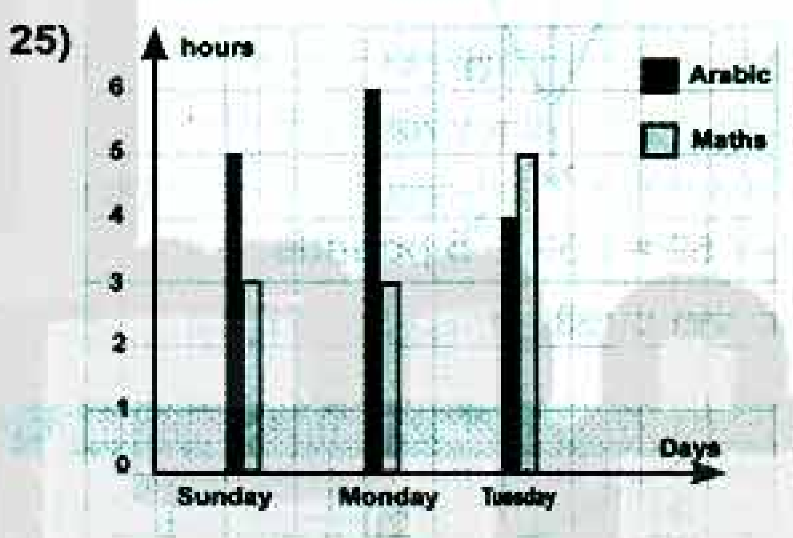
3. 23) 5.4 , 3.5 , 0.53 , 0.35
24) a) $\frac{6}{10} = \frac{3}{5}$ b) $\frac{2}{10} = \frac{1}{5}$
25) The total of what they saved = 28.5 + 20.0
= 48.5 pounds
$\simeq$ 49 pounds
26) Left to the pupil.

8 Alexandria Governorate - Al Montazah Zone

1. 1) 29.1 2) $\frac{23}{21}$ 3) 3
4) (right triangle) 5) 12 6) >
7) 25 8) zero 9) 65.08
10) 0.06 11) 3 12) 56.007
13) Z 14) double bar 15) $\frac{1}{2}$
16) 75.4

2. 17) 67 18) 8 19) 0.05
20) $\frac{1}{2}$ 21) $\frac{13}{2}$ 22) congruent

3. 23) a) 95.70 - 62.31 = 33.39 $\simeq$ 33.4
b) $\frac{2}{3} - \frac{2}{5} = \frac{10}{15} - \frac{6}{15} = \frac{4}{15}$
24) a) XY = AB = 6 cm
b) $m(\angle A) = m(\angle X) = 40°$
25)



9 Alexandria Governorate - Mid Educational Zone. Maths Inspection

1. 1) = 2) 0.07 3) 9.7
4) 7.439 5) 35.4 6) 0.6
7) > 8) 5.4 9) 4
10) 1 11) 2 12) 3
13) 48 14) $\frac{1}{2}$ 15) <
16) impossible.

2. 17) 4.3 18) 0.8 19) 6500
20) 2 21) 2000 22) 1

3. 23) 17.1 , 17.2 24) 5.08 , 5.8 , 8.5 , 58
25) rectangle 26) Left to the pupil.

10 Alex. Governorate - El Montazah Educational Zone. Islam Maaly Language Schools

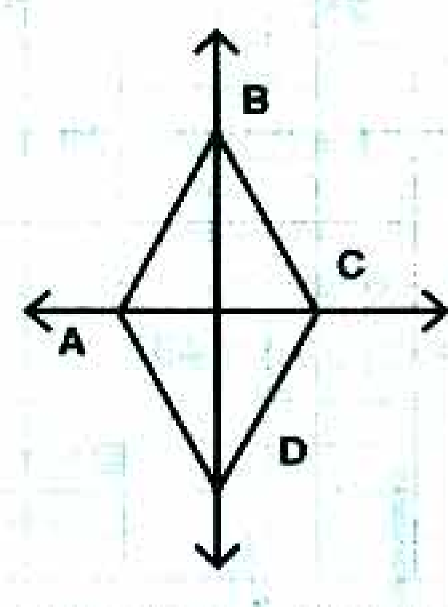
1. 1) > 2) 4 3) 500
4) 1 5) 2 6) 0.07
7) 7.77 8) 10 9) 0.5
10) 7.439 11) = 12) >

ذاكرولى
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13) 457.4 14) 20 15) 11
16) Y.

2. 17) 7.005 18) $\frac{4}{9}$ 19) 0.4
20) 3075 21) 3
22) sides , angles

3. 23) 75.0 - 64.3 = 10.7 ≃ 11
24) a) rhombus
b)



25) 12.89 - 7.59 = 5.30 ≃ 5 pounds.
26) Left to the pupil.

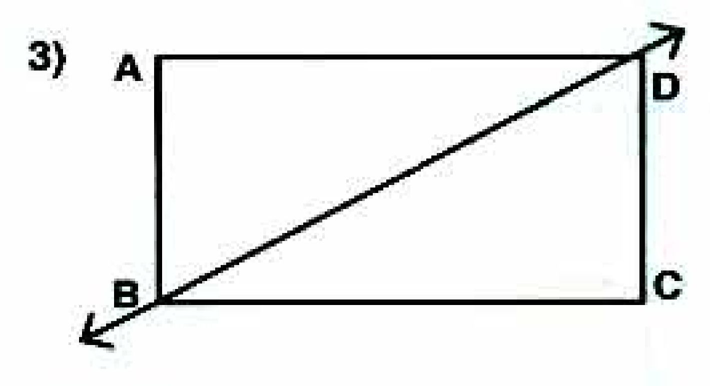
11 Dakahlia Governorate - Maths Supervision

1. 1) 0.7 2) $\frac{1}{2}$
3) 5275.6 ≃ 5300 4) 3.5
5) AC, m(∠B) 6) 5.08 , 5.8 , 8.5 , 58

2. 7) 0.07 8) $3\frac{2}{5}$ 9) 0.645
10) 1 11) 100 12) 7.439
13) $\frac{22}{3}$ 14) 658 15) 1
16) 4 17) 72 18) 3500
19) $\frac{1}{6}$ 20) 1
21) observation 22) congruent

3. 23) The total sum of what he wants to buy
= 56.50 + 34.25 = 90.75
The remainder is = 100.00 - 90.75
= 9.25 ≃ 9 L.E.
24) What the family spent in 5 weeks
= 100 × $1\frac{1}{2}$ × 5 = 750 pounds.
25) 1) rectangle 2) 2

3)



26) Left to the pupil.

12 Kafr El-Sheikh Directorate - Maths Supervision

1. 1) 98.750 2) $\frac{16}{3}$
3) 5275.61 ≃ 5300 4) 0.4
5) zero 6) 9415

2. 7) 0.735 8) 1 9) <
10) 0.5 11) 7.005 12) 15
13) 45 14) < 15) 6
16) 0.04 17) 3 18) 3500
19) 1.5 20) tenth 21) 26.04
22) 42.4

3. 23) 5 L , 6500 mL, 9000 mL , $26\frac{1}{4}$ L
24) The total amount of what she bought
= 34.75 + 26.30 = 61.05 pounds.
The money left = 100.00 - 61.05
= 38.95 pounds
25) a) 5 b) 40° c) AB d) ∠K
26) Left to the pupil.

13 Giza Governorate - Al-Haram Directorate - Maths Supervision

1. 1) 8.88 2) $3\frac{2}{5}$ 3) $\frac{7}{10}$
4) 0.1 5) 4.14 6) >
7) 800 8) = 9) $\frac{1}{6}$
10) 45 11) congruent 12) >
13) 7000 14) 10 15) 7.439
16) >

2. 17) 74.95 ≃ 75 18) 30 000 19) zero
20) the 1st square is equal to the side length of the 2nd square
21) 8 22) $\frac{5}{6}$

3. 23) 5.005 , $5\frac{1}{4}$, $5\frac{1}{2}$, 5.75

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

24) a) AB = 4 cm b) m(∠X) = 30°

25) The total price = 45.25 + 25.15

= 70.4 pounds.

The remainder = 120.0 - 70.4 = 49.6 pounds

26) Left to the pupil.

14 Damietta Educational Directorate official Language Schools

1. 1) 0.07 2) 3.05 3) 3
4) 7000 5) 7.77 6) 1
7) 2.25 8) 658 9) 0.67
10) 100 11) 1 12) <
13) Observation 14) $\frac{1}{2}$
15) > 16) congruent

2. 17) 460 18) 55.191 19) 74.85
20) 8 21) equal to 22) $\frac{7}{15}$

3. 23) 5.08 , 5.8 , 8.5 , 58

24) The remainder = 98.50 - 76.75

= 21.75 pounds

25) a) rectangle b) two

26) Left to the pupil.

15 Sharkia Governorate Diarb Negm Educational Zone El Sweedy Gover. L. School

1. 1) 1 2) = 3) 1.1
4) 0.08 5) < 6) 9.3
7) 3.62 8) 3000

2. 9) 0 10) congruent 11) 3.06
12) 50 13) 3500 14) noticing
15) 1 16) $\frac{1}{2}$

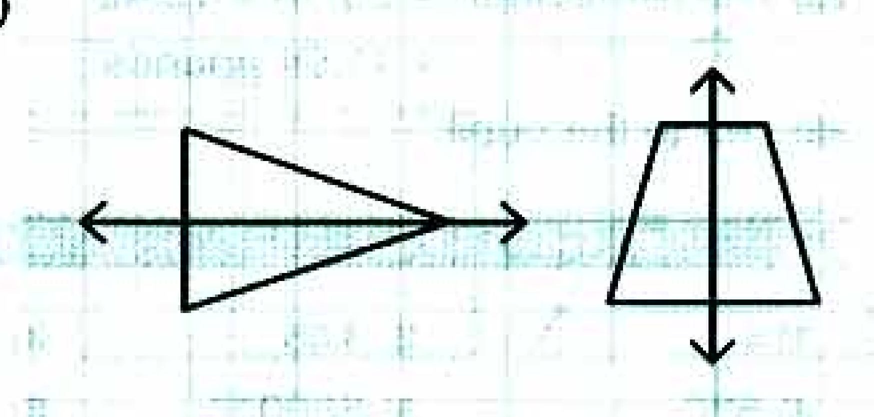
3. 17) $\frac{1}{6}$ 18) 7.09 19) 76.8
20) sides , equal 21) 7.250 22) $\frac{1}{2}$

4. 23) 33 , 3.3 , 0.3 , 0.03

24) $3\frac{1}{4}$ + 9.75 = 3.25 + 9.75 = 13 pounds.



25)



26) Left to the pupil.

16 Port Said Governorate Maths Inspectorate

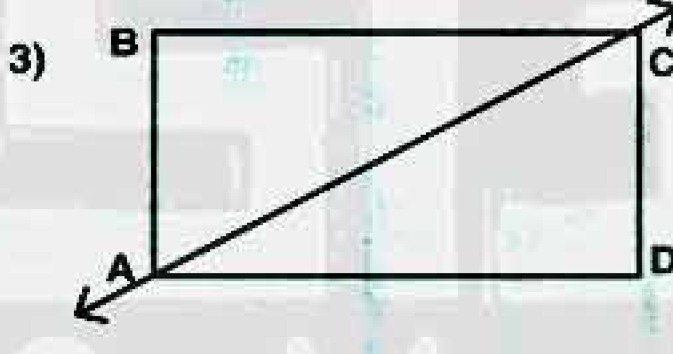
1. 1) 8000 2) 1 3) 16
4) Zero 5) 5000 6) equal

2. 7) 2000 8) 4600 9) 4
10) 1000 11) 3 12) 72
13) 1 14) 1 15) $\frac{1}{2}$
16) = 17) 6460 18) <
19) 1 20) 7.439
21) 0.07 22) $\frac{1}{2}$

3. 23) 18.11 ≃ 18.1 24) 74.852 ≃ 75

25) 1) rectangle 2) two

3)



26) Left to the pupil.

17 Ismailia - Governorate - Al - Mamar Language School

1. 1) $\frac{38}{5}$ 2) 0.08 3) 0.5
4) 0.8 5) 2 6) 0.25
7) 9400 8) 79.8 9) 1
10) = 11) 5000 12) Y
13) Observation 14) 7
15) 120 16) 10.35

2. 17) thousand 18) 3.7
19) 7.7 , 8.8 , 9.9
20) $\frac{5}{9}$ 21) equal 22) 8

3. 23) $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
24) 90.15 ≃ 90.2

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25) The remainder = 25.36 – 13.42
= 11.94 pounds

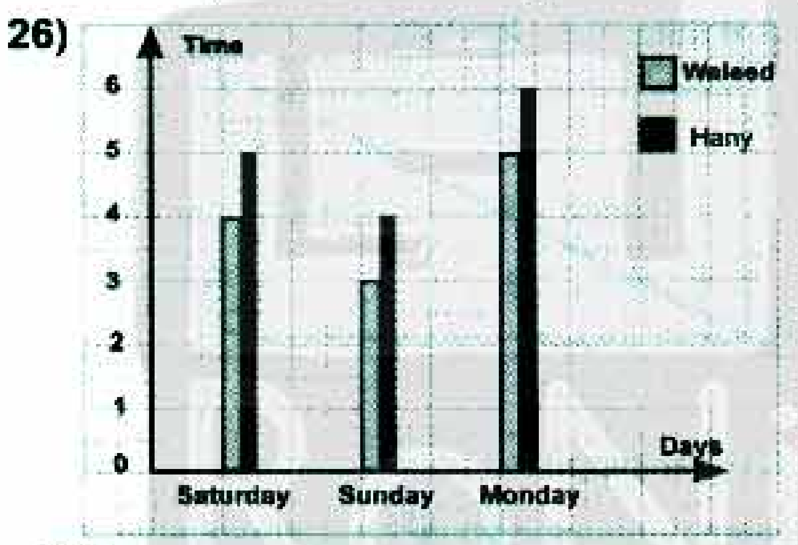
26) Left to the pupil.

18 Suez Governorate - Maths Inspectorate

1. 1) 4 2) 3.05 3) 1
4) 500 5) 8800 6) congruent
7) 72 8) 1 9) 0.08
10) = 11) 2 12) km
13) 30 14) ten

2. 15) 5375 16) $\frac{1}{2}$ 17) 16
18) 8300 19) sides , angles
20) 54

3. 21) 5.8 , 8.05 , 8.5 , 58
22) 23.79 23) 96.80 - 63.31 = 33.49
24) 0.7 + 0.8 = 1.5
25) a) 3 b) 120 c) 6
d) 1) $\frac{4}{9}$ 2) $\frac{2}{9}$ e) $3\frac{2}{5}$

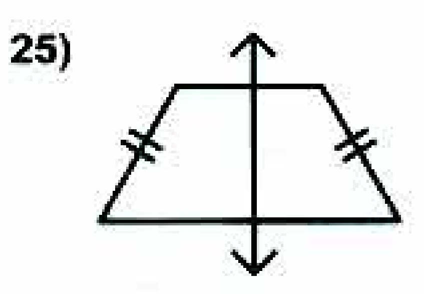
26)


19 South Sinai Governorate - Maths Supervision

1. 1) $\frac{3}{2}$ 2) 6 3) 1.03
4) 17,18 5) > 6) 7.8
7) Decimal numbers 8) 3.3 9) 0.4
10) congruent 11) 4 12) 4.75
13) $3\frac{1}{2}$ 14) observation 15) zero
16) 0.55

2. 17) two equal 18) 0.3 19) 1
20) angles 21) 3000 22) 1

3. 23) 18.11 ≃ 18 24) 1881 ≃ 1900

25)


26) Left to the pupil.

20 Fayoum Governorate - Tamia Educational Directorate

1. 1) 0.6 2) observation 3) 0.006
4) $3\frac{2}{5}$ 5) 0.19 6) 4
7) 0.3 8) $3\frac{1}{2}$ 9) <
10) $\frac{1}{2}$ 11) 20 12) 690
13) 1 14) 2 15) 24
16) 3

2. 17) $\frac{1}{2}$ 18) 1 19) 8000
20) $\frac{1}{2}$ 21) 16.88 ≃ 17
22) sides , angles

3. 23) $8\frac{1}{4}$, 8.3 , 8.4 , $8\frac{1}{2}$
24) 32.75 + 26.25
What she paid = 59.00 = 59 pounds
The left = 100 - 59 = 41 pounds
25) 1) 5 2) Y 3) 3 4) $\overline{BC}$
26) Left to the pupil.

21 Beni Suef Governorate Directroate of official. L. School

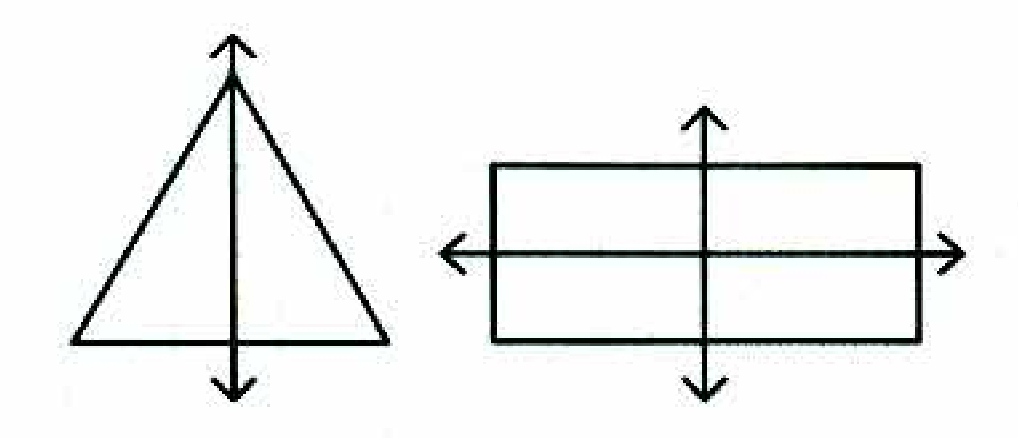
1. 1) 0.08 2) 1 3) 0.75
4) 3.279 5) ○ 6) 48
7) 1 8) $\frac{1}{2}$ 9) 7.77
10) 3 11) 4 12) =
13) 5 14) proper 15) 65.4
16) observation

2. 17) 69.22 ≃ 69 18) 73.641 ≃ 70 19) 0.7
20) $\overline{EF}$ 21) 500 22) $\frac{5}{10} = \frac{1}{2}$

3. 23) 5.08 , 5.8 , 8.5 , 58 24) 349

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

25)



26) Left to the pupil.

22 Minia Governorate - El Minia Educational Zone

1. 1) $\frac{3}{5}$ 2) 4700 3) 7.6
4) 8 5) 0 6) 100
7) 11.5 8) 1 9) 21400
10) 485.97 11) $\frac{1}{2}$ 12) $\frac{354}{10}$
13) > 14) 3 15) $\frac{27}{20}$
16) $\frac{1}{2}$

2. 17) 19.55 18) 2 19) $50.15 \simeq 50$
20) equal 21) 0.4 22) 7

3. 23) 0.003 , 0.033 , 0.3 , 0.33
24) a) $\frac{4}{9}$ b) $1 - \frac{2}{9} = \frac{7}{9}$
25) 12.75 + 17.25 = 30 pounds.
The remainder = 35 - 30 = 5 pounds
26) Left to the pupil.

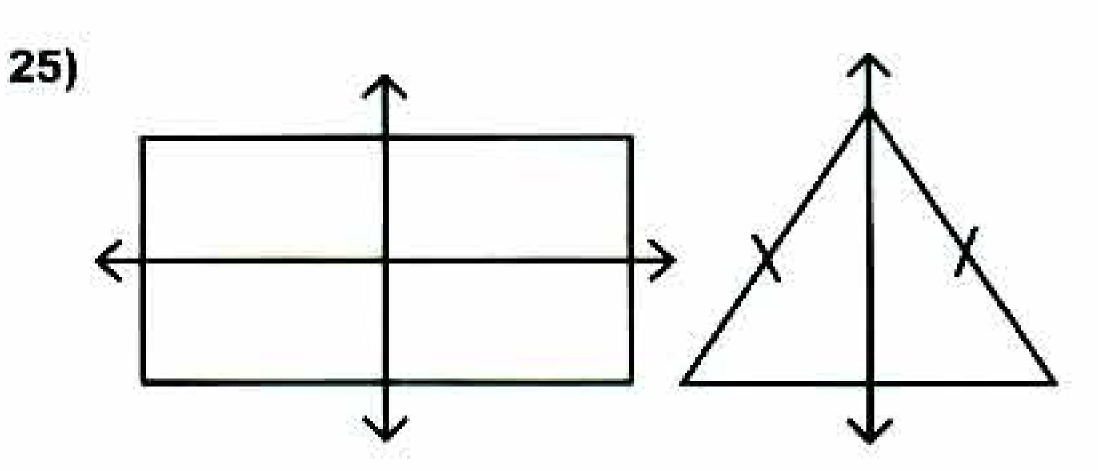
23 Assuit Governorate- Assuit Educational Directorate

1. 1) 0.7 2) 1 3) 3
4) 3500 5) 6500 6) 32.79
7) 4 8) $\frac{1}{2}$ 9) 42
10) 11.95 11) 48 12) $\frac{1}{2}$
13) 0.735 14) $\frac{13}{4}$ 15) 28
16) congruent

2. 17) is equal to 18) 7000 19) 9.28
20) $\frac{1}{6}$ 21) 4.14 22) 0.4

3. 23) The total money he paid = 12.75 + 17.25
= 30 pounds
The remainder with him = 35 - 30 = 5 pounds
24) 5.08 , 5.8 , 8.05 , 8.5

25)



26) Left to the pupil.

24 Qena Directorate of Education - Maths Supervision

1. 1) 240 2) 54.7 3) 3
4) 0.6 5) 21.40 6) 9.7
7) two days 8) 100 gm. 9) 2
10) 1000 11) < 12) 29.1
13) 200 millilitres 14) 457 15) $\frac{1}{2}$
16) 1440 17) 2 18) 4500
19) observation

2. 20) 72 21) 750
22) metre 23) 4000 24) litre
25) 495.7 26) impossible 27) one

3. 28) a) $\frac{5}{15} = \frac{1}{3}$ b) $\frac{6}{15} = \frac{2}{5}$
29) Left to the pupil.

25 Sohag Governorate - Akhmeem Educational Directorate

1. 1) 0.3 2) 42 3) 5.7
4) 30 5) 0 6) 2
7) 98.7 8) > 9) 0.6
10) 5 11) 0.87
12) congruent 13) $\frac{3}{5}$ 14) 54
15) 10 16) $\frac{1}{2}$

2. 17) $\frac{7}{8}$ 18) 3
19) $4238 \simeq 4200$ 20) 2000
21) 7.43 22) 1

3. 23) 1) rectangle 2) 2
24) 16.15 , 16.2 , 17.25 , 17.5
25) 35.0 - 27.5 = 7.5 pounds.
26) Left to the pupil.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى



Answer Keys Of 2018 Exams

Model Tests from School Book

Model 1

1. 1) 0.07   2) 1   3) $3\frac{2}{5}$

4) congruent   5) 0.645

6) <   7) 4   8) $\frac{1}{2}$

9) 3500   10) 6500   11) noticing

12) 3.05   13) 32.79   14) 3

2. 15) 1   16) 16   17) 8000

18) $\frac{1}{2}$ 19) 2   20) 1.1

3. 21) 0.4   22) 49.729 ≃ 50

23) $= \frac{3 \times 4 + 3 \times 5}{5 \times 4} = \frac{12 + 15}{20} = \frac{27}{20} = 1\frac{7}{20}$

24) 0.7 + 0.8 = 1.5   25) 42.819 ≃ 43

26) $8\frac{1}{4}$ L = 8250 mL , 5L = 5000 mL

The order is :

9000 ml, $8\frac{1}{4}$ L , 6500 ml, 5l

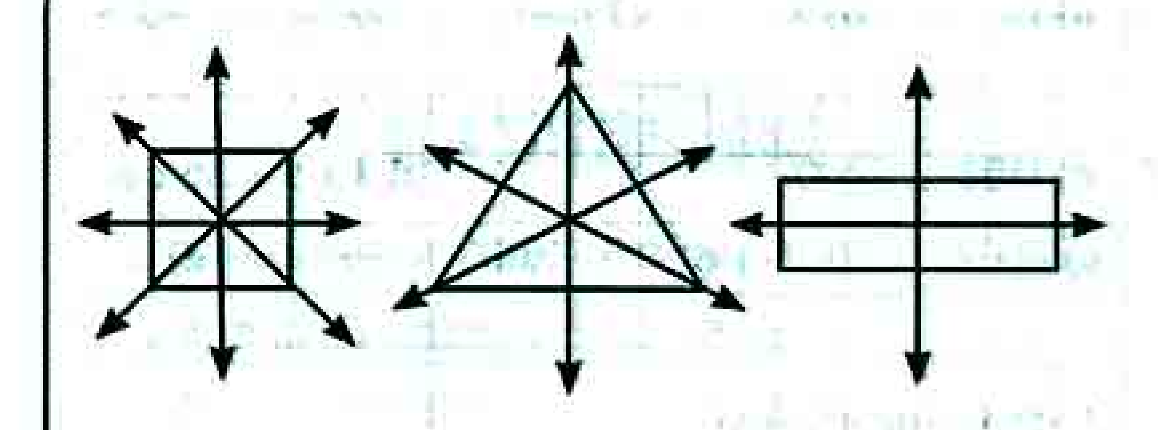
27) The remainder with her

= 100 - (37.75 + 27.58)

= 100 - 65.33 = 34.67 pounds

28) (red ball) = $\frac{3}{5}$

29)



30) left to the pupil.

Model 2

1. 1) 1   2) 9000   3) 4

4) 1   5) 72   6) 0.08

7) 0.375   8) $\frac{1}{2}$ 9) >

10) 1

11) a square of side length 5cm   12) 567.5

13) $\frac{3}{5}$ 14) 0.05

2. 15) $\frac{4}{8} - \frac{1}{4} = \frac{1}{2} - \frac{1}{4} = \frac{1}{4}$

16) 3500   17) 1   18) $4\frac{14}{100} = 4.14$

19) 7.005

20) the length and width of the 1st rectangle is equal to the length and width of the 2nd rectagnle.

3. 21) the order is:

5.08 , 5.8 , 8.05 , 8.5 , 58

22) $\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$

23) $\frac{8}{4} = 2$ 24) 8.5

25) 34.49 ≃ 34.5

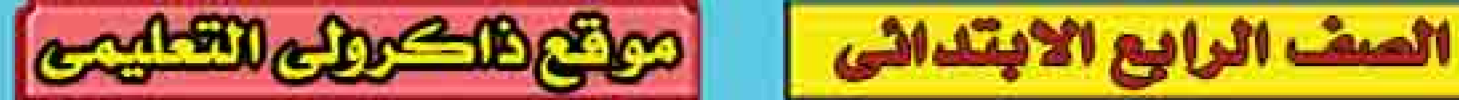
26) 46.235   27) P (green ball) = $\frac{7}{10}$

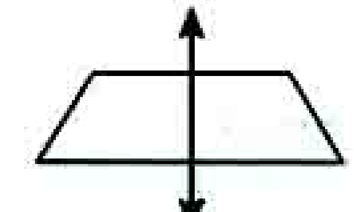
28) What the family spent $= 5 \times 1\frac{1}{2} \times 100$

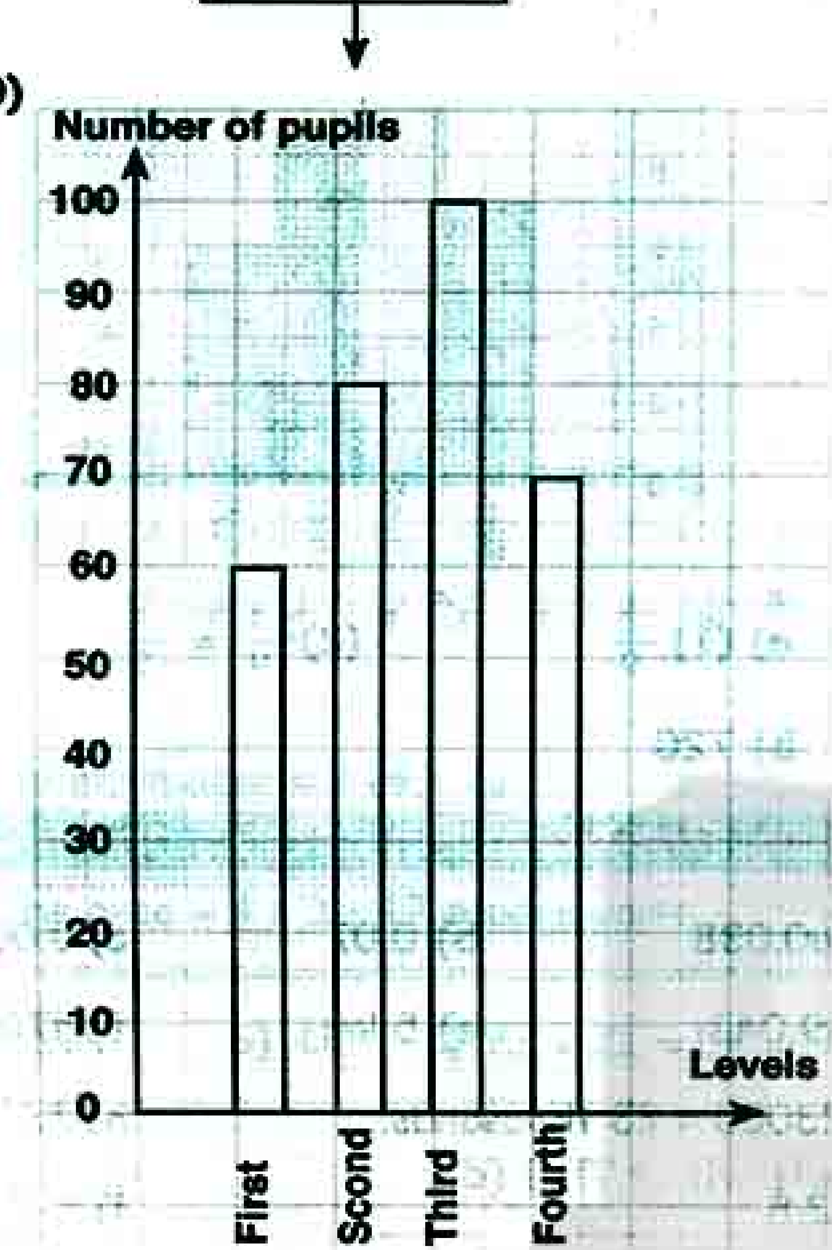
$= 5 \times \frac{3}{\cancel{2}} \times \cancel{100}^{50}$

= 750 pounds.





29) 

30) 

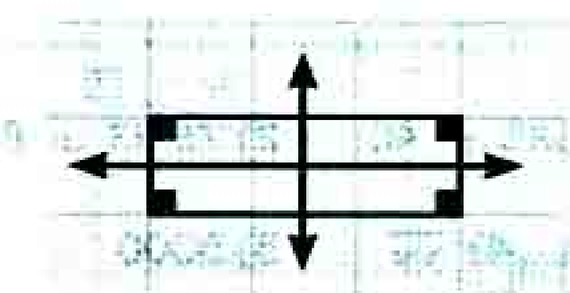
Model 3

1. 1) 0.046 2) 500 3) =
4) 100 5) 4 6) 9.7
7) 0 8) 0.04 9) 1
10) $\frac{22}{3}$ 11) $\frac{1}{2}$ 12) 0.735
13) 658 14) 7.439

2. 15) the length and width of the 1st rectangle are equal to the length and width of the 2nd rectangle.
16) 1 17) $\frac{1}{2}$ 18) 45
19) $\frac{3}{6} = \frac{1}{2}$ 20) $4.03 \simeq 4$

3. 21) 18.11 22) $\frac{4}{4} = 1$
23) $74.582 \simeq 74.9$ 24) 5375
25) $\frac{3}{5} = \frac{9}{15}$, $\frac{2}{3} = \frac{10}{15}$, $1 = \frac{15}{15}$
the order is: 1, $\frac{2}{3}$, $\frac{3}{5}$, $\frac{7}{15}$
26) It is not, because the side length of figure (1) is not equal to the side length of figure (2).

27) The remainder with him
= 35 - (12.75 + 17.25)
= 35 - 30 = 5 pounds
28) P(yellow ball) = $\frac{2}{8} = \frac{1}{4}$
29) a) rectangle b) two
c)



30) left to the pupil

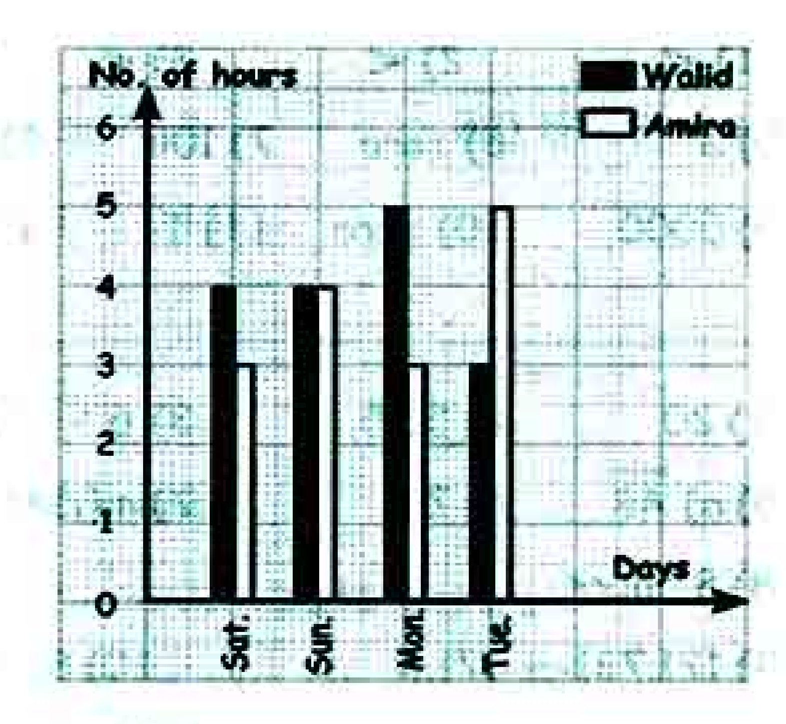
Answers of Al-Adwaa Model Tests

Model 1

1. 1) < 2) > 3) < 4) <
5) 6.75 6) zero 7) 42.8 8) 1
9) 6 10) zero 11) 1
12) 7.77

2. 1) $42.89 \simeq 43$ 2) $45358 \simeq 45000$
3) $22.77 \simeq 22.8$ 4) $596.54 \simeq 600$
5) 4 6) 15000 7) 200 8) zero
9) zero 10) 5000 11) 90 12) $4.56 \simeq 5$

3. a) 22.75 pounds
b) 0.35, 0.53, $3\frac{1}{2}$, 5.4
c)



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

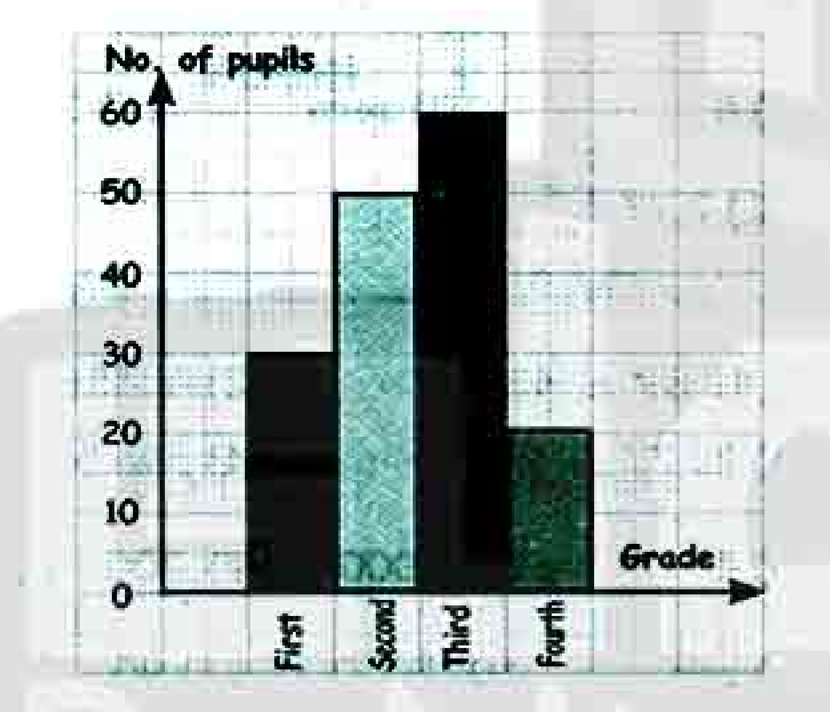
Model 2

1. 1) > 2) = 3) < 4) <
5) > 6) < 7) < 8) >
9) 6 10) zero 11) 1 12) 7.77

2. 1) 40.085 ≃ 40 2) 76.93 ≃ 80
3) 6.45 4) $\overline{XY}$ 5) 5000 6) 90
7) 4.56 ≃ 5 8) 5000 9) 4
10) 98.5 11) equal in length, equal in measure

3. a) (1) $\frac{2}{7}$ (2) $\frac{5}{7}$
(3) zero (4) $\frac{4}{7}$

b)



c) 1) $\frac{3}{15} = \frac{1}{5}$ 2) $\frac{10}{15} = \frac{2}{3}$

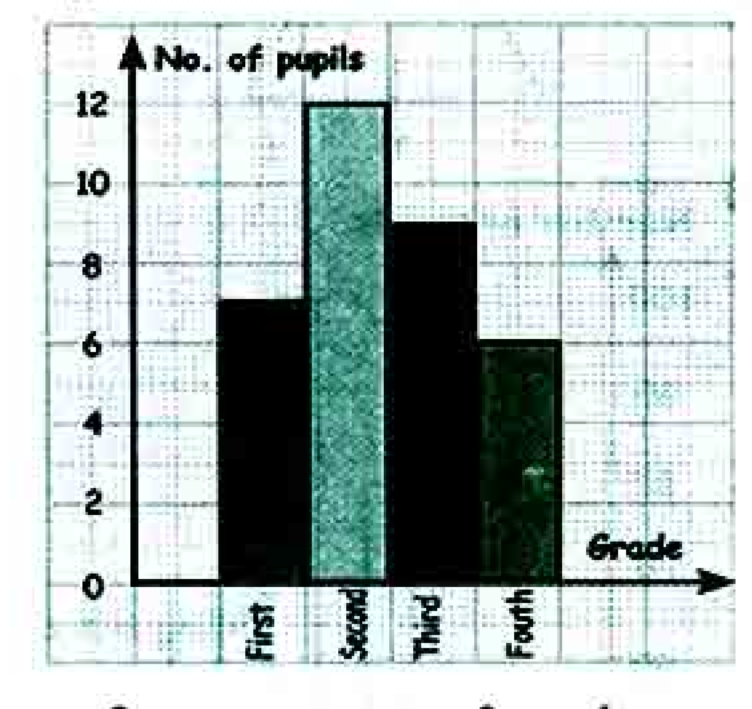
Model 3

1. 1) < 2) < 3) < 4) >
5) 3 6) zero 7) 100 8) >
9) 5000 10) zero 11) 1 12) 0.77

2. 1) 20 2) 55.5 3) 6 4) 2 , 4
5) a) $\overline{AB}$ 6) Z 7) m(∠A)
8) 8 hours
9) 171.731 ≃ 171.7 10) 82.65 ≃ 83
11) 4 12) AB

3. a) 23.25 pounds

b)



c) a) (1) $\frac{2}{9}$ (2) $\frac{3}{9} = \frac{1}{3}$

b) 720

Pre-exam Final Revision

1. a) 60.038 b) 0.07 c) 0.004
d) 19.043 e) 5 km f) 57000
g) 23000 = 23 thousands. h) 77500
i) 42.8 j) $4\frac{3}{4}$ litres

2. From a) to g) are left to the student.
h) congruent, symmetry
i) 98.2 , 97.6 j) 4000
k) 8, 480 l) 422.5 ≃ 400

3. a) = b) > c) = d) <
e) = f) > g) = h) <
i) < j) < k) = l) <
m) > n) = o) > p) <

4. a) ✓ b) ✓ c) ✗ d) ✓ e) ✗
f) ✗ g) ✗ h) ✗ i) ✓

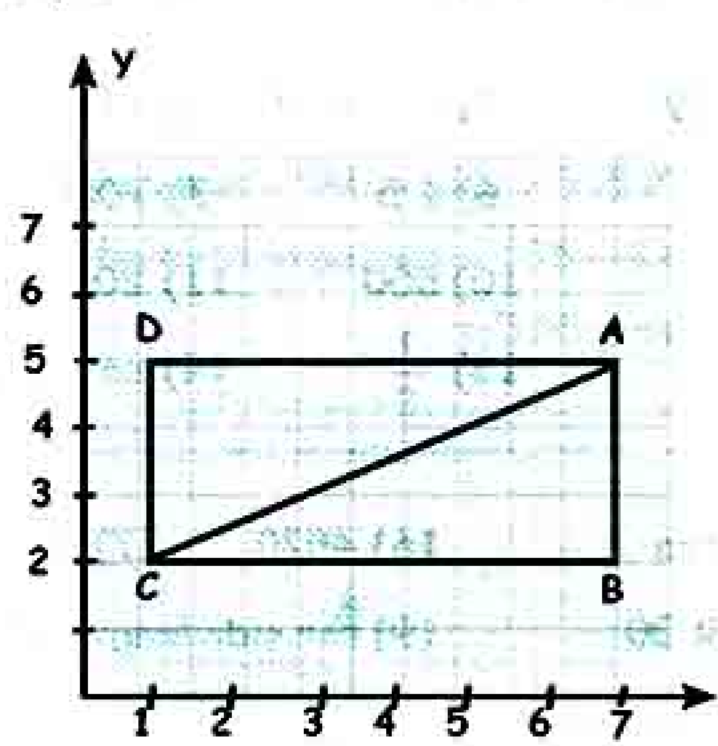
5. a) 765000 b) 1) 497.75 2) 513245
c) 4076916 d) 0.25 x 100 + 15 ÷ 10 = 4

6. a) square b) ⊥ , intersecting
c), d) are left to the student.

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

7. a) rectangle

b)



c) 2

d) The perimeter = 2 (4 + 3)

= 2 x 7 = 14 units

The area = 4 x 3 = 12 square units

---

8. a) square b) 4 c) YZ = ZL = LX = , ≡

---

9. a) $\frac{6}{10} = \frac{3}{5}$ b) Left to the student.

---

10. a) Left to the student. b) 49 cm²

Some School Examinations from Different Governorates

1 Cairo Governorate - Mathematics Supervision (A)

(1) 1) $\frac{534}{10}$ 2) 2 3) 6

4) tenth 5) hundred 6) 0.5 7) 8.743

---

(2) 8) thousand 9) 0 10) 1 11) 87

12) 11.36 13) $\frac{1}{2}$ 14) $\frac{1}{2}$

---

(3) 15) 789.56 16) $\frac{1}{2}$ 17) sides, angles

18) 4000 19) 9.452 20) 11

---

(4) First:

21) 69.84 ≃ 69.8 22) 13569 ≃ 14000

23) 55.45 ≃ 55

Second:

24) 5.6, 5.15

25) The remainder = 60 – (38.25 + 8.2) = L.E 13.55

(5) First:

26) left to the pupil.

27) a) $\frac{3}{15} = \frac{1}{5}$ b) $\frac{10}{15} = \frac{2}{3}$

28) a) < b) >

Second:

29) 1) $\overline{ZY}$ 2) ∠ A

30)



2 Cairo Governorate - Mathematics Supervision (B)

(1) 1) $\frac{354}{10}$ 2) 0 3) 6

4) tenth 5) hundred 6) 0.5 7) 7.439

---

(2) 8) thousand 9) 2 10) 1 11) 97

12) 21.36 13) 0 14) $\frac{1}{2}$

---

(3) 15) 234.56 16) $\frac{1}{2}$ 17) equal, angles

18) 2000 19) 2.145 20) 7

---

(4) First:

21) 76.84 ≃ 76.8 22) 11569 ≃ 12000

23) 945.75 ≃ 946

Second:

24) 6.6, 6.15

25) The difference

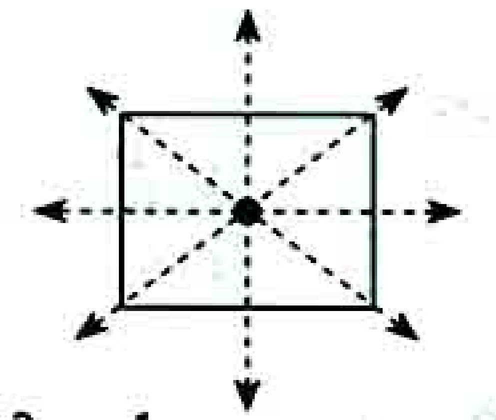
= 9567 – 3971 = 5596 meters

= 5.596 km ≃ 6 to the nearest km

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

(5) First:

26)



27) a) $\frac{3}{15} = \frac{1}{5}$ b) zero

28) a) > b) >

Second:

29) 1) $\overline{XY}$ 2) $\angle C$ 30) Left to the pupil.

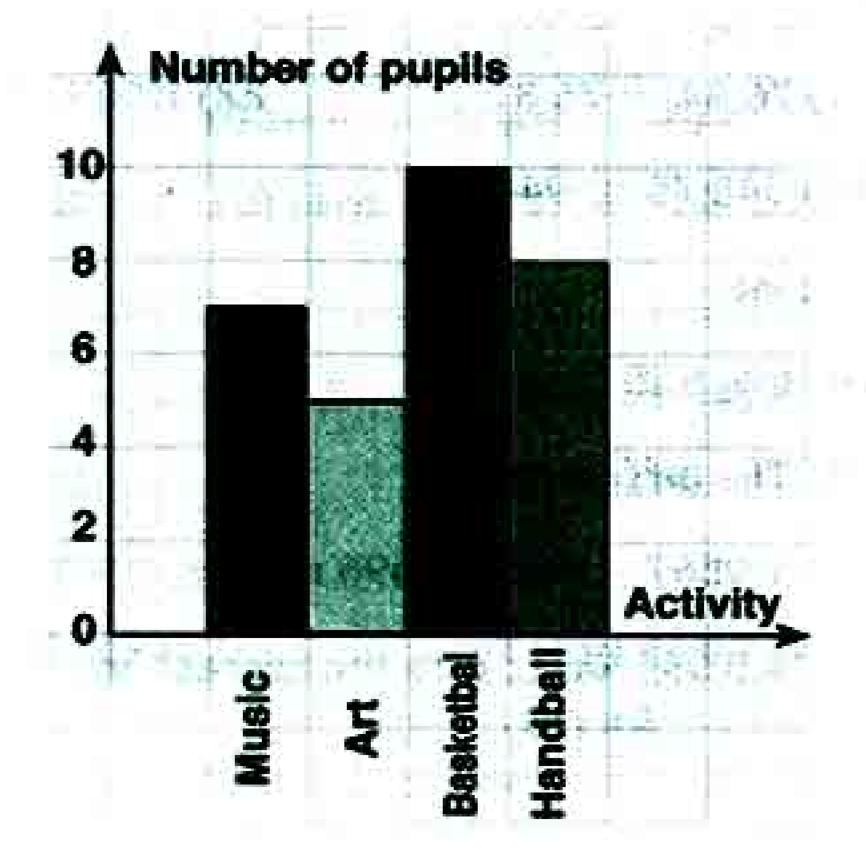
3 Cairo Governorate - El Khalifa and Mokattam

(1) 1) thousand 2) 4.6791 3) 14 4) 84.3
5) 3000 6) 0 7) 2 8) $\frac{1}{2}$
9) equilateral 10) 4.8 11) 4
12) 319 13) 20 14) 41.053

(2) 15) > 16) 1 17) 1.6
18) 0.1238 19) 4000 20) $\frac{3}{6} = \frac{1}{2}$

(3) 21) equal in length, angles.
22) 592, 582, 572, 562
23) a) $\overline{XY}$ b) m $\angle C$
24) a) $\frac{5}{11}$ b) zero
25) triangles, symmetry.
26) Dalia paid = 36.8 + 52.4 = 89.2 L.E
27) > 28) ABB, ABBB 29) 6

30)



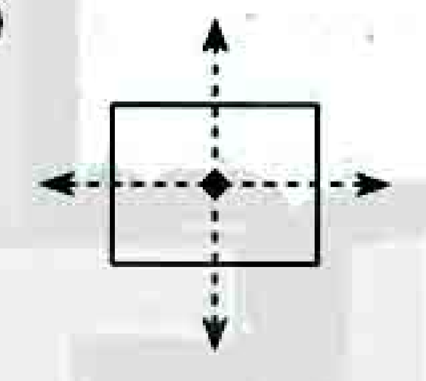
4 Cairo Governorate - East Nasr City

(1) 1) 0.09 2) hundred 3) 3.17 4) 831.3
5) < 6) 2.5 7) 7000 8) Y
9) 3 10) 500 11) 20
12) 1 13) $\frac{1}{2}$ 14) noticing

(2) 15) ten 16) 4570 17) 425.7
18) 3000 19) the side length of the second
20) impossible

(3) 21) 37.9 22) 7.3 23) 7.8 24) 654
25) 99.994 26) 70,60

27)



28) What he will pay = 10 × 500 = L.E. 5000

29) 1) $\frac{3}{12} = \frac{1}{4}$ 2) $\frac{4}{12} = \frac{1}{3}$

30) Left to the student.

5 Cairo Governorate - Mathematics Supervision (C)

(1) 1) $\frac{654}{10}$ 2) 0 3) 4 4) tenth
5) hundred 6) 0.5 7) 8.839

(2) 8) thousand 9) 3 10) 1 11) 55
12) 7.777 13) 0 14) $\frac{1}{2}$

(3) 15) 28.57 16) $\frac{1}{2}$ 17) sides , angles
18) 3000 19) 99.875 20) 333.5 ≃ 334

(4) First:

21) 16.28 ≃ 16.3 22) 14666 ≃ 15000

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

23) $82.65 \simeq 83$

Second:

24) 5.6, 5.15

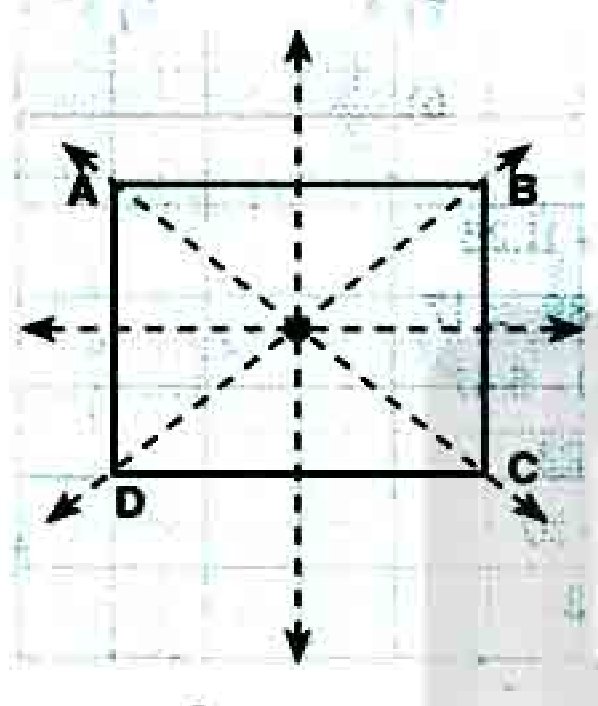
25) The difference = 980 – 425 = 555 PT

The difference in pounds = 555 ÷ 100

= 5.55 pounds

(5) First:

26)



27) a) $\frac{5}{11}$ b) $\frac{3}{11}$ 28) a) < b) <

Second:

29) 1) $\overline{YZ}$ 2) ∠ B

30) Left to the student.

(6) Cairo Governorate - Heliopolis Educational Zone

(1) 1) 70 2) 2 3) 100 4) 3 kg

5) 6.3 6) > 7) 3 8) 0

9) = 10) $\frac{1}{2}$ 11) 0.1 12) 20

13) 500 14) 1000

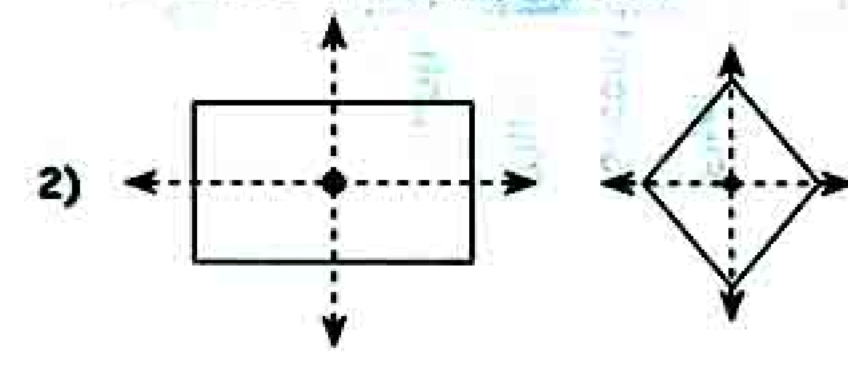
(2) 1) 1 2) 76.5 3) 0.22 4) 7.5

5) 14 6) 202

(3) 1) 3.078 + 7.230 = 10.308

$\simeq$ 10.3 to the nearest tenth

2)



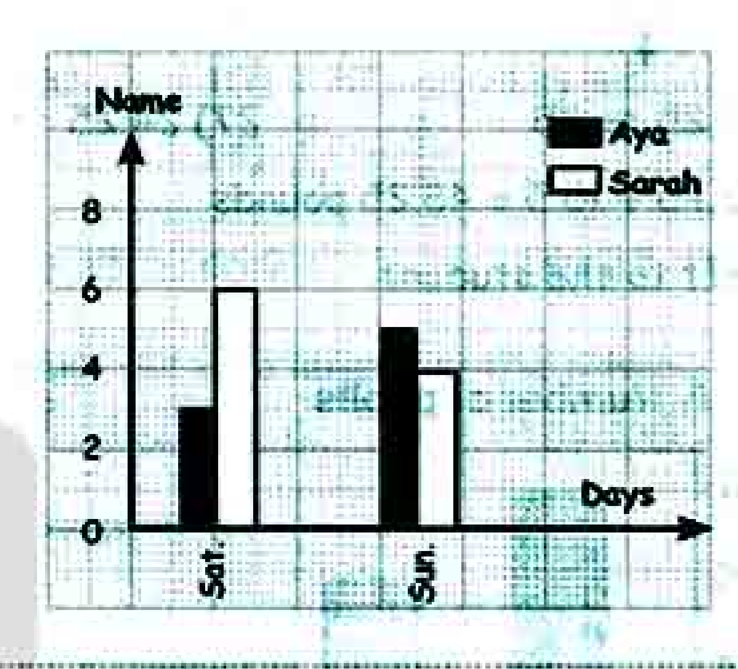
(3) 1) $\frac{4}{10} = \frac{2}{5}$ 2) $\frac{6}{10} = \frac{3}{5}$

(4) The remainder

= 92.50 - 76.75

= 15.75 pounds.

(5)



(7) Giza Governorate - El Haram Directorate

(1) 1) 3000 2) 5500 3) 1 4) 3.641

5) 3.8 6) $\frac{1}{2}$ 7) 10.35 8) 4

9) 6 10) 10 11) △ 12) >

13) 3.6 14) the meter

(2) 15) XY 16) one 17) sides, angles

18) 5000 19) two 20) ▭

(3) 21) $15.83 \simeq 20$ 22) $10.55 \simeq 10.6$

23) $3.69 \simeq 4$ 24) Y 25) $\frac{5}{9}$

26) [rectangle with two dashed lines of symmetry] 27) equal in length.

28) 22.75 pounds

29) $39 \div 7 = 5\frac{4}{7} \simeq 6$ 30) Left to the student.

(8) Giza Governorate - North Giza Directorate

(1) 1) 2.538 2) 1 3) 36 4) 10

5) 53 6) 2 7) 50 8) 500

9) 78.3 10) > 11) 1.1 12) =

13) liter 14) 7300

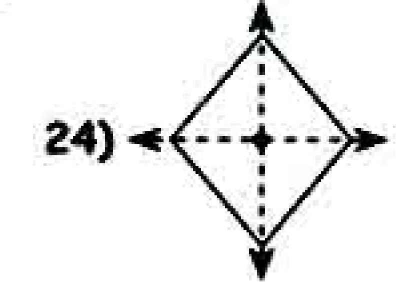
ذاكرولى
هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

② 15) 3.8,4 16) 4220 17) 4 18) 150

19) 2000 20) $\frac{1}{2}$

---

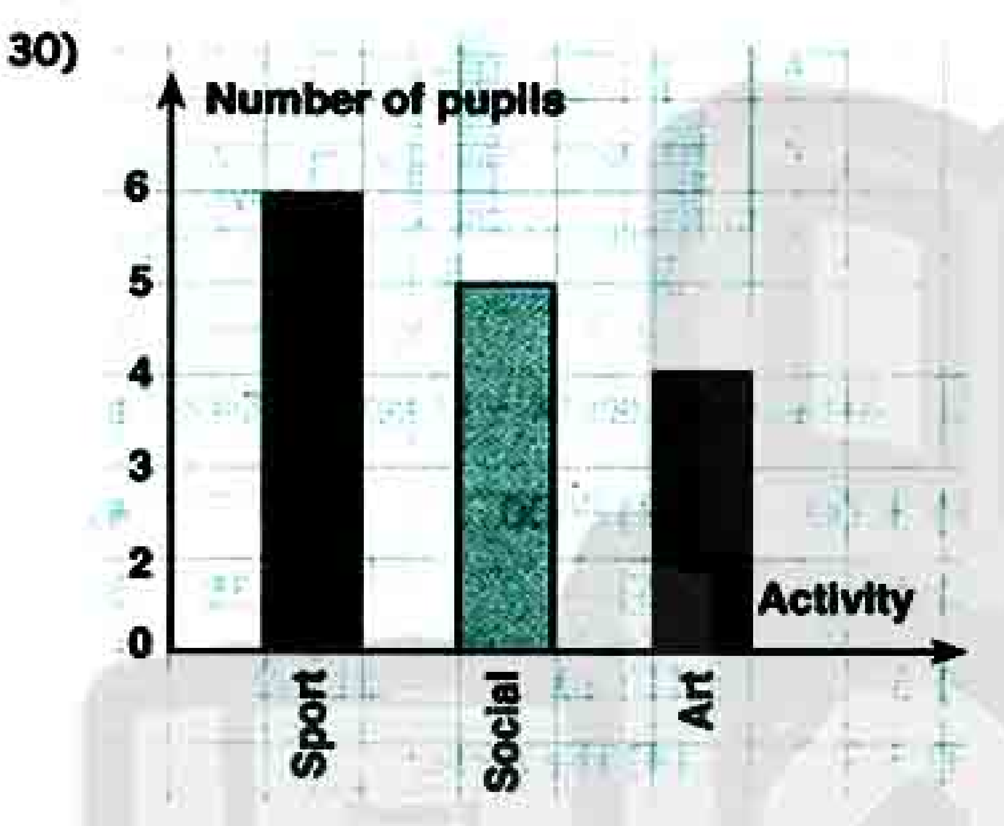
③ 21) 562.7 22) 673.58 23) 57.92

24)  25) 5,40

26) 34.25 ≃ 35 27) 24.25 ≃ 24.3

28) 32.75 + 15.5 = 48.25 pounds

29) Left to the student.

30) 

9 Giza Governorate - Awseem Educational Directorate

① 1) 7.23 2) 2 3) 7.25 4) 42

5) equal 6) 2000 7) 25.25

8) 425000 9) impossible 10) 0.03

11) thousand 12) 6.75 13) 0.043

14) 25 15) 21.28 16) 0

---

② a) 7355 ≃ 7400 b) 24.88 ≃ 24.9

---

③ 1) 5 2) 60°

---

④ 1346.4 + 925.6 = 2272 ≃ L.E. 2300

---

⑤ a) $\frac{1}{2}$ b) $\frac{1}{2}$ c) $\frac{1}{6}$

---

⑥ Left to the student.

10 Giza Governorate - 6th October Directorate

① 1) 240 2) 1000 3) 54.7 4) 6

5) 1 6) 2 7) 1000

---

② 1) 29.1 2) > 3) 1.1 4) 2

5) 1 6) 13 7) $\overline{XY}$

---

③ 1) 5.7 2) 4 3) 87.3 4) equal

5) 90 6) $\frac{1}{2}$

---

④ 1) 5.63 + 11.25

= 16.88 ≃ 17

2) 54.70 - 5.47

= 49.23

3) 243 ÷ 10

= 24.3

4) 7234 ÷ 100

= 27.34

5) 1) $\frac{5}{9}$ 2) $\frac{4}{9}$

---

⑤ a) (1) X (2) 4 b) 11.8

c)

Number of pupils
90
80
70
60
50
40
30
20
10
0
Grades
First
Second
Third
Fourth

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هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

11 Alexandria Governorate - East Educational Zone

(1) 1) – 2) 3.965 3) 2.23 4) 7.4
5) 30.45 6) 2.72 7) hundred 8) 2
9) impossible 10) 3 11) 500 12) $\frac{1}{2}$
13) impossible 14) 1

(2) 1) 82.33 ≃ 82.3 2) 45.65 3) one
4) 24 5) △○○○○ 6) 150

(3) 1) 1.321 2) 513.5 3) 4499 4) 9
5) a) b)
6) 13.8, 14
7) The money left.
= 90 – (28.45 + 11.5) = 90 – 40 = 50 pounds.
8) a) $\frac{9}{20}$ b) $1-\frac{9}{20}=\frac{11}{20}$
9) The order is: 7000 gm , $\frac{1}{2}$ ton , 650 kg
10) Left to the pupil.

12 Alexandria Governorate - El-Montazah Zone

(1) 1) 45.2 2) 4 3) hundred 4) 2000
5) zero 6) 3000 7) 1 8) 35000
9) 250 10) $\frac{1}{2}$ 11) 24 12) 1
13) 2 14) 53 15) 37°
16) impossible 17) 5 18) 3 19) 100°
20) degree

(2) 1) 5000 2) two 3) 5.9 4) 5400
5) 35000 6) XY 7) equal in length
8) 53830 9) thousand 10) zero

(3) 1) $\frac{5}{11}$ 2) $\frac{2}{11}$ 3) $\frac{2}{11}+\frac{4}{11}=\frac{6}{11}$
4) $1-\frac{4}{11}=\frac{7}{11}$

(4) The total money with them
= 25.5 + 32.5 = L.E. 58

(5) Left to the pupil.

13 Qaluobia Governorate - Mathematics Supervision

(1) 1) 0.6 2) 0.04 3) 4 4) 1
5) 2 6) zero 7) impossible 8) 0.3
9) 1000 10) 7.77 11) 4.5 12) =
13) 8 14) $\frac{9}{12}=\frac{3}{4}$

(2) 15) 46.85 ≃ 46.9 16) 37
17) equal the side length of the other.
18) $\frac{32}{7}=4\frac{4}{7}\simeq 5$ 19) 4000
20) thousandth

(3) 21) 44.4,55.5 22) $\overline{YZ}$, Y 23) $\frac{2}{5}$
24) 0.2 + 0.09 + 0.007
25) 10.35 26) $\frac{1}{4}$, 0.33 , $\frac{1}{2}$, 0.6
27) 50 + 4.5 = 54.5
28)

29) The remainder = 98.5 - 56.25 = 42.25 pounds
30) Left to the pupil.

14 Menoufia - Menoufia Educational Directorate

(1) 1) 7.77 2) 1 3) 8.09 4) 2
5) 4.94 6) congruent 7) unit 8) $\frac{1}{2}$
9) 45000 10) 97 11) 23.8 12) $\overline{XY}$
13) 29.1 14) 3

(2) 15) scalene 16) impossible 17) 6
18) equal in length 19) 0.001 20) 7.5

(3) 21) 42.819 ≃ 42.82 22) 9.28 ≃ 9
23) 15.55 ≃ 15.6 24) 1.1
25) 62088 ≃ 62100

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

26) 10 L, 5 L, 2000 ml, 3 mL

27) 98.5 – 76.75 = 21.75 pounds

28) 1) zero 2) $1 - \frac{2}{9} = \frac{7}{9}$ 3) $\frac{4}{9}$

29), 30) are left to the pupil.

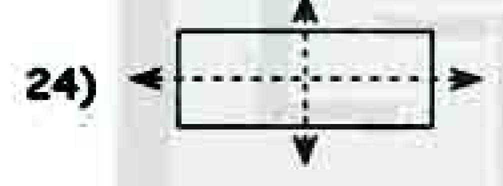
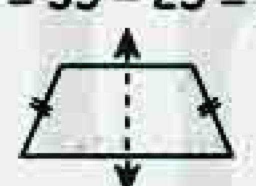
15 Gharbia Governorate - Official Language Schools

1 1) 10.07 2) 1 3) congruent
4) 50070 ≃ 50 thousand 5) > 6) 7
7) square

2 8) liter 9) 1440 10) 0.654 ≃ 0.7
11) 8.8, 8.4 12) $\frac{1}{3}$ 13) 35000

3 14) 5 15) > 16) 750
17) observation 18) $2\frac{1}{4}$ 19) 67.424 20) L

4 21) 20 22) 9000 ml, 8 L, 65 cm³, 5 dm³
23) The remainder
= 35 – (9.75 + 15.25) = 35 – 25 = L.E. 10

24)  

25) a) $\frac{8}{15}$ b) $1 - \frac{2}{15} = \frac{13}{15}$

5 26) 2.486 27) 861, 862
28) a) 5000 L.E b) 40000 L.E
29) 1353.59 ≃ 1400
30) Left to the student.

16 Dakahlia Governorate - Maths Supervision

1 1) 3.5 2) 100 3) 6000 4) =
5) 2 6) 0.33 7) 1440 8) <
9) 8 10) 2 11) 3
12) parallelogram 13) 5 14) 23.45

2 15) 4 16) one 17) data
18) 0.55 19) 20 20) 2.345

3 21) What's remained
= 48 – (25.75 + 7.75) = 48 – 33.5
= 14.5 ≃ 15 pounds

22) a) $\frac{7}{11}$ b) $1 - \frac{1}{11} = \frac{10}{11}$
c) zero d) $\frac{3}{11}$

23) What each pupil had = 625 ÷ 100
= 6.25 ≃ 6.3 pounds

24) The difference = 975 – 425 = 550 P.T
= 550 ÷ 100 = 5.5 pounds

25) a) $\overline{XY}$ b) 5 c) A d) 60°

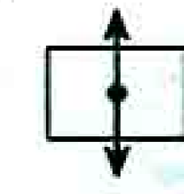
26) Left to the pupil.

17 Kafr Al-Sheikh Directorate - Mathematics Supervision

1 1) 240 2) 1000 3) 56.7 4) <
5) observation 6) 8.88 7) 0.31 8) 1
9) 1 10) 0.03 11) 3500
12) 5 km 13) > 14) 3

2 15) 22.707 ≃ 22.7 16) 49.729 ≃ 50
17) 5 18) $\frac{1}{2}$ 19) sides, angles
20) 3.5

3 21) 98.5 – 76.75 = 21.75 pounds
22) 8, 480 23) 6 24) 8.8, 8.4
25) $\frac{2}{11}$ 26) 9000 mL, 8.75 L, 6500 ml, 5 L
27) 10.35 28) 154 ÷ 10 = 15.4 L.E

29) 

30) Left to the pupil.

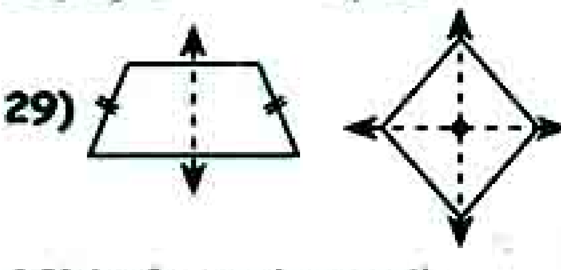
18 Damietta - Inspection of Mathematics for Official Language Schools

1 1) 45.1 2) 1 3) 3 4) 10
5) 4.957 6) = 7) congruent

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

8) 0.03 9) 7600 10) 8 11) 2500
12) $\frac{1}{2}$ 13) □ 14) 1.2

(2) 15) equal in length 16) 80
17) 11.55 18) one 19) $\frac{1}{2}$ 20) 7.06

(3) 21) $69.25 \simeq 69.3$ 22) $166.78 \simeq 170$
23) $3.465 \simeq 3$
24) 4 L, 4.5 dm^3, 4700 mL, 5200 mL
25) 3.8, 4 26) 48.8 – 36.75 = 12.05 pounds
27) a) $\frac{3}{15} = \frac{1}{5}$ b) zero
28) 1) 3 2) $\overline{CD}$ 3) A 4) 120°
29)

30) Left to the pupil.

19 Sharkia Governorate - Directorate of Education

(1) 1) 100 2) 2 3) 1300 4) 1
5) 54.7 6) 25 7) 1 8) >
9) 0.06 10) 3.2 11) $\frac{1}{2}$ 12) Y
13) $4\frac{3}{4}$ 14) 37°

(2) 15) $\frac{1}{6}$ 16) 720 17) 0.505
18) 6 19) infinite 20) 2000000

(3) 21) 30.58 22) 155.375
23) 34.8 24) 52.15
25) 6.2 , 6.6 26) $30.172 \simeq 30.2$
27) 18 hours , 1020 minutes , $\frac{2}{3}$ day , $\frac{1}{2}$ day
28) a) $\frac{4}{9}$ b) $1 - \frac{2}{9} = \frac{7}{9}$
29) 25 - 9.75 = 15.25 L.E
30) Left to the student.

20 Port Said Governorate - Port Said Official Language Schools

(1) 1) 4.5 2) zero 3) 1000 4) 3
5) 13.5 6) 1 7) 60

(2) 8) 2.89 9) 40 10) 5000 11) △△
12) certain 13) 2 14) hundred

(3) 15) 66 16) 100 17) equal
18) 1000 19) $\frac{1}{2}$ 20) 3.5

(4) A) 21) 28.9 22) 4.3
B) 23) R 24) S
C) 25) The remainder = 98.5 - 76.5 = 22 pounds.

(5) A) 26) > 27) < 28) >
B) 29) Left to the pupil.

21 Ismailia Governorate - Directorate of Education

(1) 1) 2 2) 500 3) 1
4) sides 5) 0.25 6) 6,8,7

(2) 7) tenth 8) 60 9) 9 10) ✓
11) > 12) 13000 13) 0.65 14) 70
15) XZ 16) △ 17) very large
18) a certain 19) $\frac{1}{2}$ 20) $\frac{1}{6}$

(3) 21) 0.048 22) 36.37 23) 18.75
24) 35.8 25) 4600 26) rhombus
27) (rhombus with dashed axes of symmetry)
28) The order is: 20 minutes , 10 hours, $\frac{1}{2}$ day
29) a) $\frac{4}{13}$ b) $1 - \frac{6}{13} = \frac{7}{13}$
30) Left to the student.

22 Suez Governorate - Suez Educational Directorate

(1) 1) 2 2) 6 3) 1
4) 29.1 5) 0.051 6) 4.749

هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

7) 7.77 8) 1000 9) 240
10) 2 11) km 12) 5.4
13) 5000 14) 0.6

(2) 15) 4700 16) 3000 17) one 18) 500
19) 60 20) △○○○ , △○○○○

(3) 21) 72.48 ≃ 72 22) 17.455
23) equal in length, angles
24) a) $\frac{8}{13}$ b) $\frac{5}{13}$ 25) 60.8
26) The difference = 322 - 85.75
= 236.25 pounds.
27) 8 28) 8640
29) Left to the pupil.

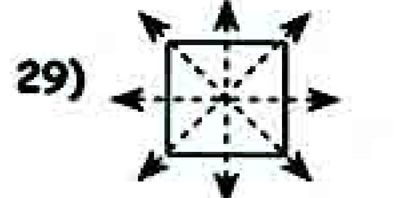
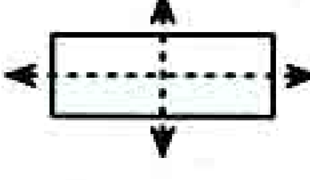
23 Beni Suef Governorate - Directorate of Education

(1) 1) 1 2) 3500 3) thousand
4) 75 5) 1 6) 3.6
7) 0 8) < 9) $\overline{YZ}$
10) 0.5 11) 5.9 12) $\frac{1}{2}$
13) noticing 14) 10.4

(2) 15) 115.94 16) $\frac{1}{2}$ 17) 77.455 18) 3600
19) 34 20) The side length

(3) 21) 20.95 = 21 22) 543.21 , 500
23) 150 24) congruent, axis of symmetry
25) impossible
26) 5 $\frac{1}{2}$ kg, 7500 gm, 8000 gm, 9 kg
27) What Mohamed paid = 5.75 + 7.25 = 13 pounds
The remained with him = 48 - 13 = 35 pounds

28) $\frac{6}{15} = \frac{2}{5}$

29)  

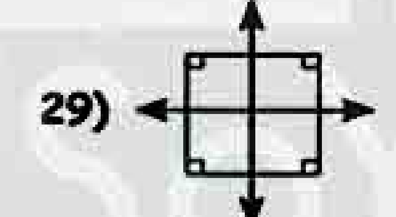
30) Left to the pupil.

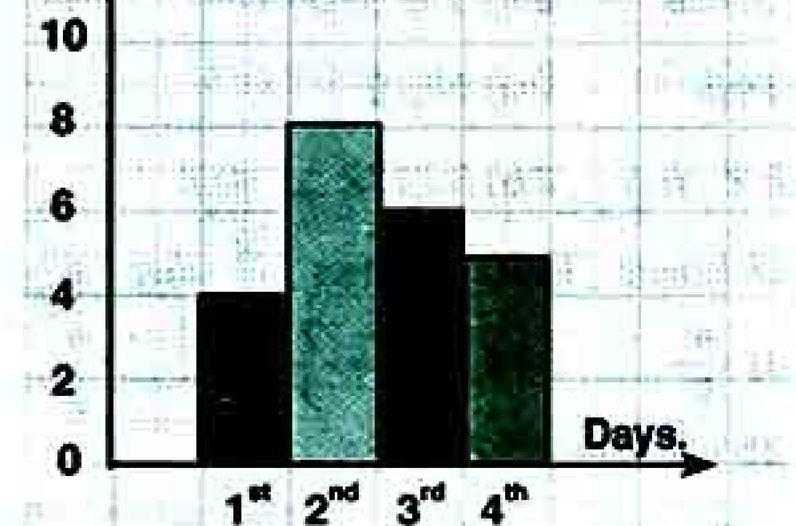
24 Fayoum Governorate - Maths Supervision

(1) 1) 100 2) 2.5 3) 0.4
4) Z 5) 0.8 6) 2
7) meter 8) △ 9) 80 kg
10) $\frac{1}{2}$ 11) 6 12) $\frac{1}{2}$
13) 0 14) 2

(2) 15) ten 16) 3000 17) 2
18) sides, angles 19) 0.9 , 1.1
20) 1

(3) 21) 34.20 + 4.45
= 38.65
≃ 39
22) 3597 - 2143
= 5740
≃ 5700
23) 7 + 0.4 + 0.03 = 7.43
24) 42.37 = 42.4
25) The remainder
= 98.50 - 76.75 = 21.75 pounds
26) The order is:
2000 mL , 3500 mL , 4 $\frac{1}{2}$ liters, 7 liters
27) 1) $\frac{5}{9}$ 2) zero
28) 1) cm 2) Y 3) 3 cm 4) $\overline{CB}$

29) 

30) 

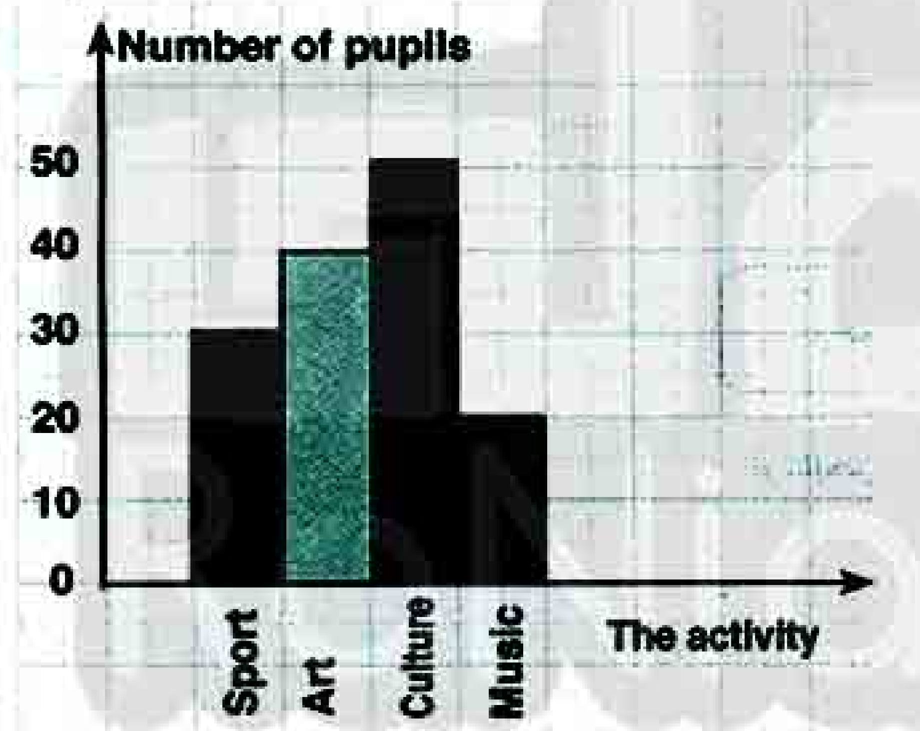
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25 Minia Governorate - General Supervision of Mathematics

① 1) < 2) 5 3) 4
4) 0 5) < 6) 1
7) 240 8) 46.4 9) thousand
10) 2.3 11) 36 12) B
13) 200 14) 54.7

② 15) 378.9 16) 651 17) equal
18) 15 19) 300 20) 2

③ 21) ○△.○△ 22) 9 + 250 23) 30
24) 0.7 25) 122.5 ≃ 123
26) 475.81 ≃ 475.8
27) 48.5 - 36.5 = 12 pounds
28) $\overline{XY}$, 50° , 29) $\frac{2}{7}$
30)



26 Assiut Governorate - Assiut Administration of Education

① 1) 0 2) 240 3) 56.7
4) 100 gm 5) 5.4 6) 2
7) 2 days 8) 1 liter 9) $\frac{1}{2}$
10) 7000 11) $\frac{1}{2}$ 12) 97
13) < 14) 1

② 15) $\frac{5}{8}$ 16) 8.8 17) congruent 18) 6
19) 5 20) 1000

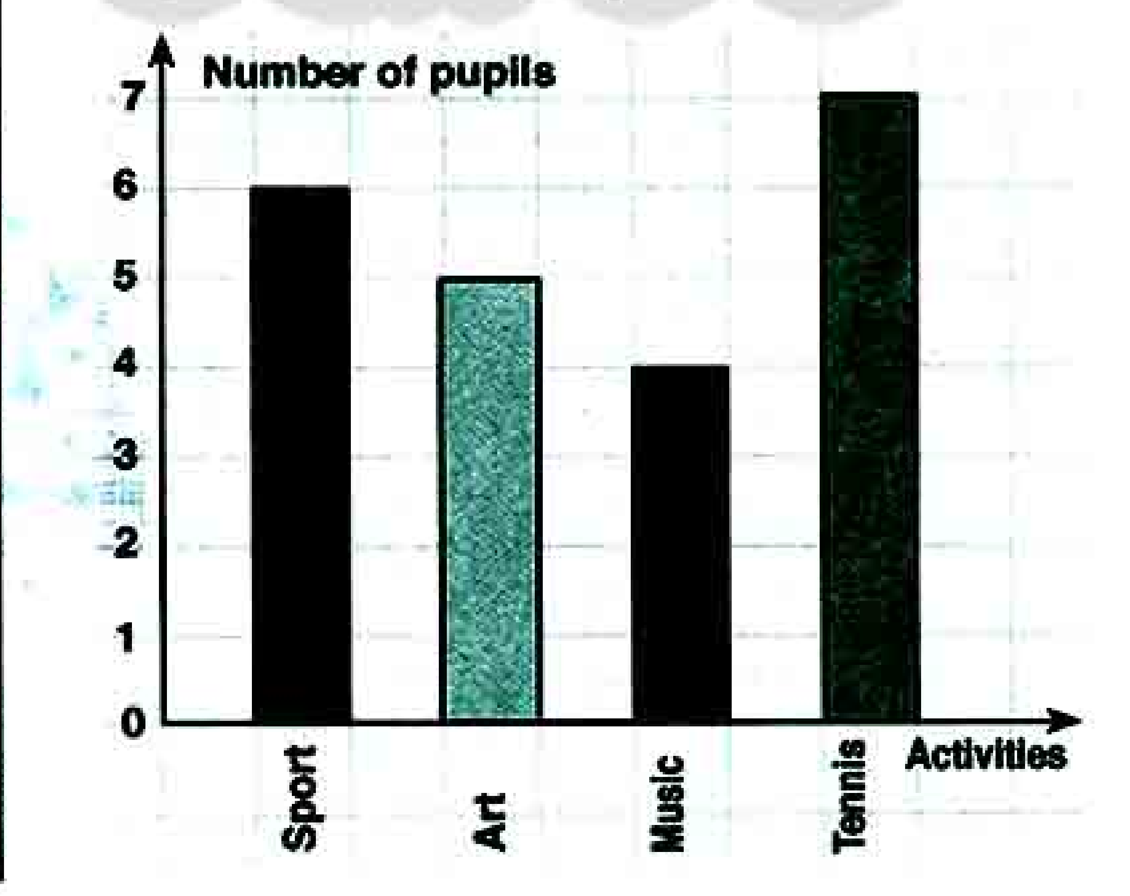
③ 21) 16.88 ≃ 17 22) 9.047
23) 24.819 ≃ 24.8 24) 52.15 25) 150
26) 12.89 - 3.19 = 9.7 ≃ 10 pounds
27) $\frac{1}{2}$ 28) a) $\frac{4}{9}$ b) $\frac{7}{9}$
29) the side of length of the other.
30) Left to the student.

27 Sohag Governorate - Akhmim Ed. Administration

① 1) 24 2) 2000 3) 3 4) $\frac{1}{2}$
5) 4.5 6) 1 7) 60 8) 1L 9) 5.5
10) 3.5 11) 30 12) 10 gm 13) 2
14) 2000

② 15) △○○○○ 16) 2430 17) equal, equal
18) 2897 19) ∠ Y 20) 7000

③ 21) 4087.87 22) 2920.21
23) a) $\overline{XY}$ b) ∠ Z c) 5cm d) m (∠ A)
24) a) = b) >
25) ① → (trapezium) ② → (rectangle)
③ → (parallelogram) ④ → (square)
26) 34.26
27) a) $\frac{3}{8}$, b) 0
28) gm , kg , ton
29) 25.36 - 13.42 = 11.94 pounds.



هذا العمل خاص بموقع ذاكرولى التعليمى ولا يسمح بتداوله على مواقع أخرى

28 Sohag Governorate - Mathematics Supervision

① 1) $\frac{1}{3}$ 2) 3500 3) 1 4) 29.1

5) < 6) 25 7) < 8) YZ

9) $\frac{1}{2}$ 10) 620 11) 1000 12) 97

13) 15.48 14) 5000

② 15) 90 16) 0 17) 4

18) 621.04 ≃ 600 19) 92.818 20) 15

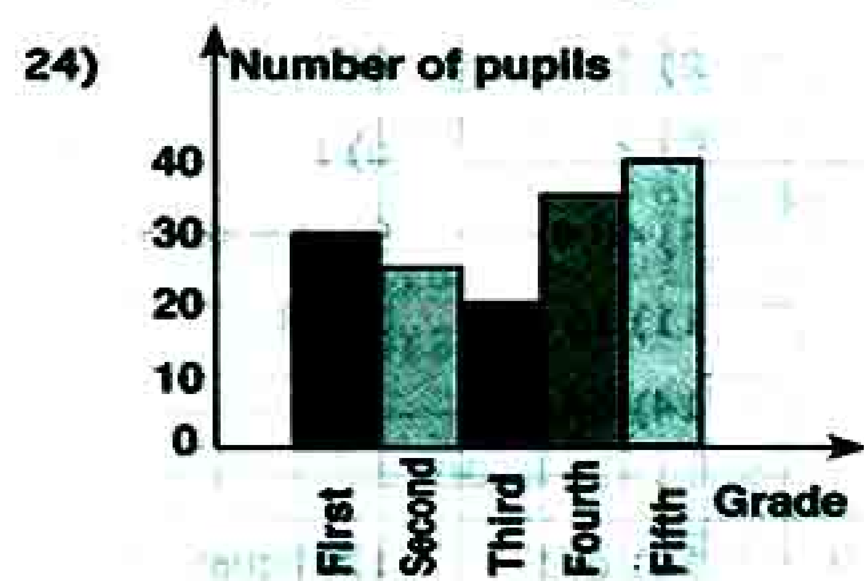
③ 21) 97.50 - 42.50 = 55 P.T.

= 0.55 pounds ≃ 1 pound

22) a) $\overline{AC}$ b) 5 cm c) $\angle C$ d) 60°

23) a) $\frac{2}{10} = \frac{1}{5}$ b) $\frac{3}{10}$

24)



RaNia SaYed

أكتب ذاكرولي في البحث وانضم لجروبات ذاكرولي
من رياض الاطفال للصف الثالث الاعدادي

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